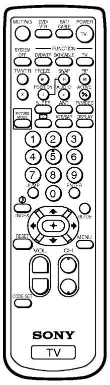
Self Diagnosis Supported model

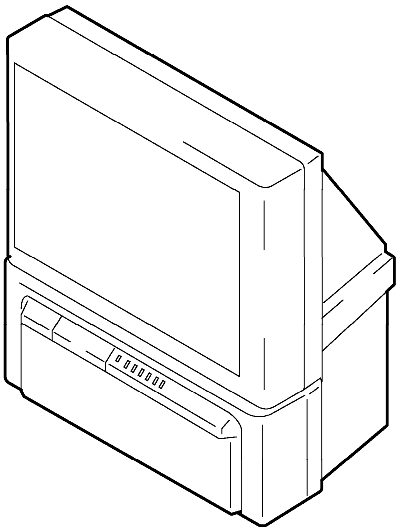
SERVICE MANUAL RA-3A CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-43T75	RM-Y906	US	SCC-P43CA
KP-43T75	RM-Y906	Canadian	SCC-P43CA
KP-48S75	RM-Y906	US	SCC-P43BA
KP-48S75	RM-Y906	Canadian	SCC-P43BA

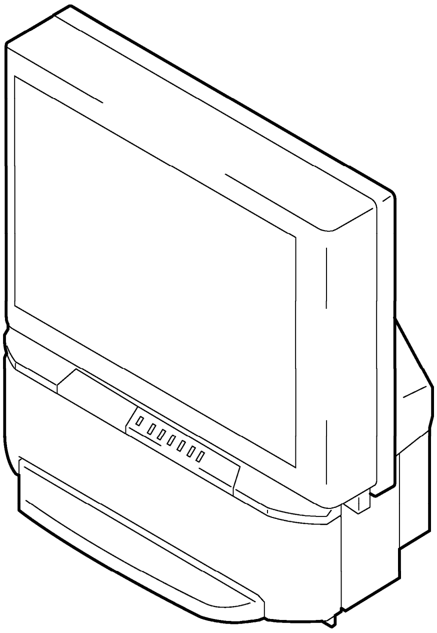
MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-53N77	RM-Y906	US	SCC-P43DA
KP-53N77	RM-Y906	Canadian	SCC-P43DA
KP-53S75	RM-Y906	US	SCC-P43AA
KP-53S75	RM-Y906	Canadian	SCC-P43AA
KP-61S75	RM-Y906	US	SCC-P43EA
KP-61S75	RM-Y906	Canadian	SCC-P43EA



RM-Y906



KP-43T75



EXCEPT KP-43T75

COLOR REAR VIDEO PROJECTOR

∗ Please file according to model size. .... ☐

43 48 53 61

SONY®

SPECIFICATIONS

Projection system
3 picture tubes, 3 lenses, horizontal in-line system

Picture tube
7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system

Projection lenses
High performance, large diameter hybrid lens F1.05

Television system
American TV standard

Channel coverage
VHF: 2–13/UHF: 14 –69/CATV: 1 – 125

Antenna
75 ohm external terminal for VHF/UHF

Screen size (measured diagonally)
43 inches (KP-43T75)
48 inches (KP-48S75)
53 inches (KP-53S75/53N77)
61 inches (KP-61S75)

Inputs/outputs
VIDEO 1 IN
VIDEO 2 INPUT
S VIDEO IN (4-pin mini DIN):
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 47 kilohms
VIDEO 3 IN
S VIDEO IN (4-pin mini DIN):
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative
Y: 1 Vp-p, 75 ohms, sync negative
PB: 0.7 Vp-p, 75 ohms
PR: 0.7 Vp-p, 75 ohms
AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 47 kilohms
MONITOR OUT
VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks): 470 mVrms (100% modulation), Impedance: 470 ohms
AUDIO (VAR/FIX) OUT (phono jacks): 500 mVrms (100% modulation), Impedance: 470 ohms
CONTROL S OUT: minijack

Speaker
For KP-53N77
Tweeter: 66 mm (2 5/8") x 2
Woofer: 130 mm (5 1/8") x 2
Except for KP-53N77
100 mm (4") x 2

Speaker output
15W x 2 (Except for KP-53N77)
20 W x 2 (KP-53N77)

Power requirement
120 V AC, 60 Hz

Power consumption
In use (Max.): 160 W
In standby: 1 W

Dimensions (W/H/D)
965 x 1,058 x 510 mm (38 x 41 5/8 x 20 1/8 inches) (KP-43T75)
1,105 x 1,338 x 579 mm (43 1/2 x 52 5/8 x 22 3/4 inches) (KP-48S75)
1,216 x 1,417 x 632 mm (47 7/8 x 55 3/4 x 24 7/8 inches) (KP-53S75)
1,216 x 1,417 x 632 mm (47 7/8 x 55 3/4 x 24 7/8 inches) (KP-53N77)
1,370 x 1,560 x 670 mm (54 x 61 3/8 x 26 3/8 inches) (KP-61S75)

Mass
64.6 kg (141 lbs 10 oz) (KP-43T75)
64 kg (141 lbs 2 oz) (KP-48S75)
67.6 kg (149 lbs) (KP-53S75)
75.2 kg (165 lbs 13 oz) (KP-53N77)
84.6 kg (186 lbs 8 oz) (KP-61S75)

Supplied accessories
Remote control RM-Y906 (1)
Batteries (2) size AA (R6)

Optional accessories
Connecting cables
RK-G34, RK-74A, RK-G69HG, VMC-10HG, VMC-720M, VMC-810S/820S, YC-15V/30V
U/V mixer EAC-66

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate;be suspicious of your HV meter if sets always have low HV.
9. Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers) . Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to usc these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground;the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

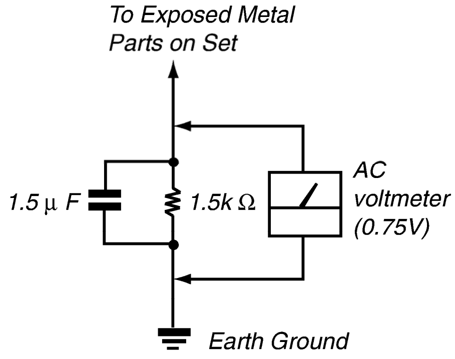


Fig. A. Using an AC voltmeter to check AC leakage.

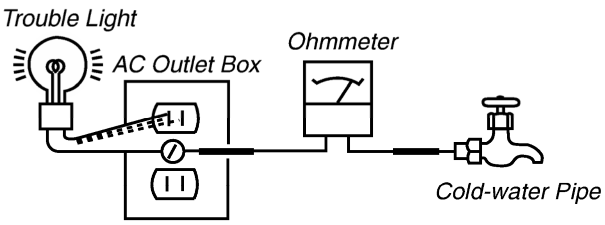


Fig. B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the TIMER/STANDBY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the TIMER/STANDBY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the TIMER/STANDBY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display “ 0 ” means that no malfunctions occurred.

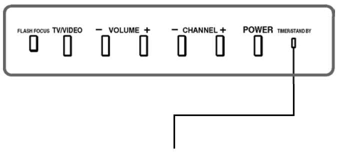
Diagnosis item	TIMER/STANDBY Indicater Number of blinks	Supposed malfunction	Condition	Self-diagnosis screen display, Diagnosis item: Results
• Power not ON	0	[Standby Power Supply System] F601 open. R607 open. Q601 short circuit [Main Power Supply System] IC601 and R612 are broken. VDR601 short-circuit	Cannot turn on the power. LED doesn't blink.	
+B OCP detection	2 times	Short circuit of power supply system in each circuit.	Goes to the standby mode Short circuit of +B line	2 : +B OCP 000
+B OVP detection	3 times	T603 pin 78 open. R672 open.	Goes to the standby mode Malfunction of power supply circuit	3 : +B OVP 000
Vertical deflection stop	4 times	IC1509(V out) is broken. Q1505(V Pulse Buffer) is broken.	Raster goes to one line horizontally, Aand then video signal is muted.	4 : V Stop 000
Video out abnormality detection	5 times	Video out, Q705, 732, 761 and others in C board circuit. Q218, 219, 220 (A board)	TIMER/STANDBY LED blinks approx. 30 seconds, and then blinks for the self diagnosis.	5 : AKB 000
Horizontal deflection stop	6 times	C515, 516 open. IC206(YC Jungle) is broken.	Raster doesn't appear.	6 : H Stop 000
Audio abnormality detection	8 times	IC406(Audio amp.) is broken. PS401, 402 open.	The sound is not out. Goes to the standby mode	8 : Audio 000

* : 000 the range of values for number of operations is 000-255. For 256 or higher there is no count up and the number remains at 255.

3. Blinking count display of TIMER/STANDBY indicator

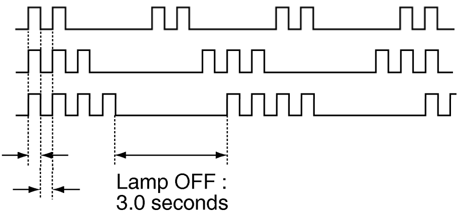
* One blink is not used for self-diagnosis.

< FRONT PANEL >



•EXAMPLE

<Diagnosis Items>	<Number of Blinks>
• +B overcurrent	2 times
• +B overvoltage	3 times
• Vertical deflection stop	4 times



Release of TIMER/STANDBY indicator blinking.

- The TIMER/STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

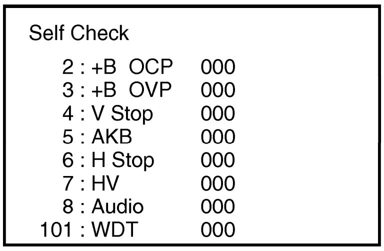
- Quickly press the remote command button in the following order from the standby state.

DISPLAY → Channel 5 → VOL – → POWER

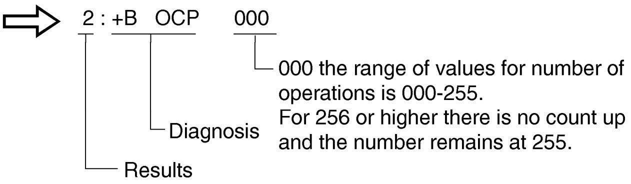
⇧

Be aware that this differs from the method of entering the service mode (volume +).

Self-diagnosis screen display



```
Self Check
    2 : +B  OCP    000
    3 : +B  OVP    000
    4 : V Stop     000
    5 : AKB        000
    6 : H Stop     000
    7 : HV         000
    8 : Audio      000
  101 : WDT        000
```


2 : +B OCP 000
000 the range of values for number of operations is 000-255.
For 256 or higher there is no count up and the number remains at 255.
Diagnosis
Results

5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to “ 0 ”.
- If the results display is not returned to “ 0 ” it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

1. Power off (Set to the standby mode)
2. DISPLAY → Channel 5 → VOL + → POWER (Service Mode)
3. Channel 8 → ENTER (Test reset = Factory preset condition)

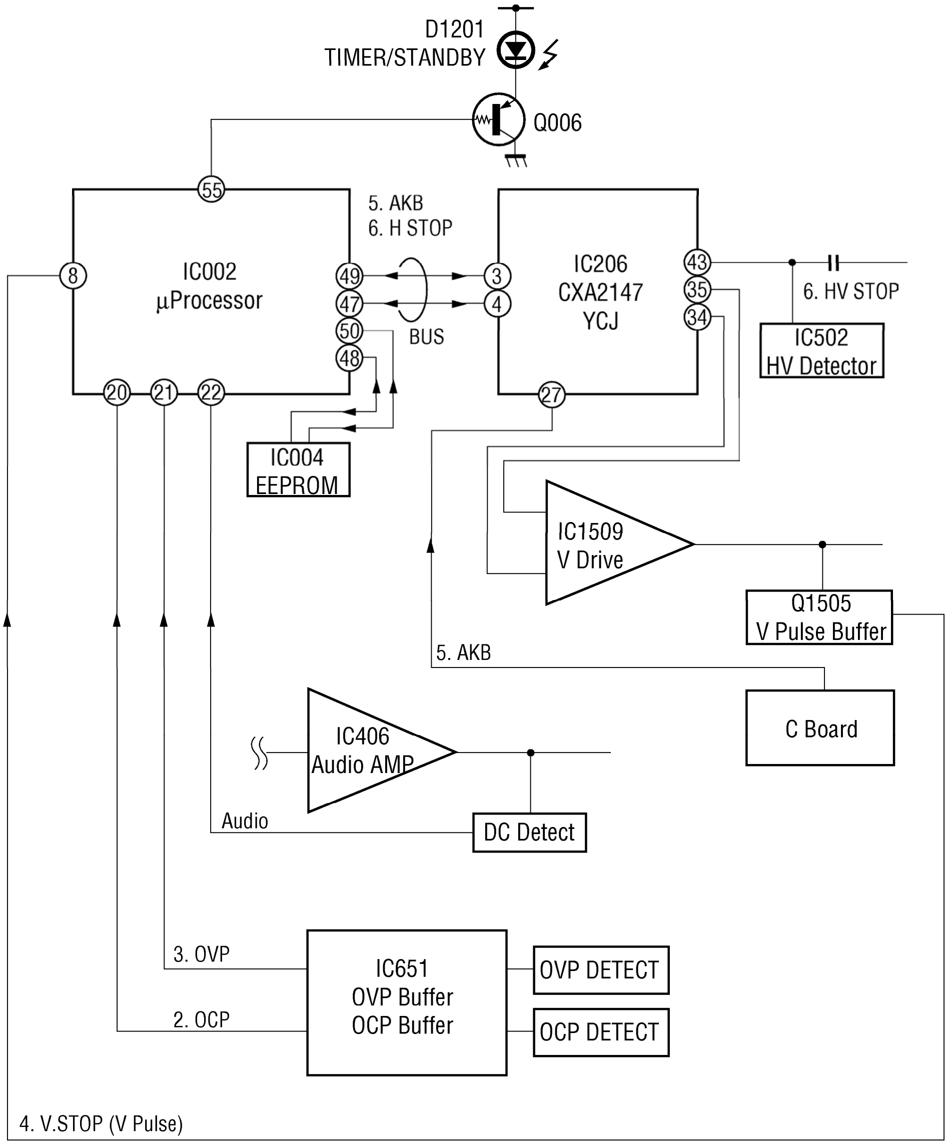
<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

6. Self-diagnosis function operation

OCP	Low B and +B line detect DET SHORT, and shut-down POWER ON RELAY. Reset by turning power on/off. In case of +B is loaded approx. 1.3A or more, microcomputer detects it via IC651.
OVP	In case of +B becomes approx. 150V or more, POWER ON RELAY shuts down and microcomputer detects it via IC651. Reset by turning power on/off just the same as OCP.
V Stop	In case of microcomputer detects 2 seconds or more interval of V Pulse, Reference Pulse turns off by turning off the picture signal in YC Jungle IC (IC206). After the picture signal turns off, V Pulse is regenerated 2 seconds or more, the picture signal turns on.
AKB	IK detection. Makes LED blinking in case of microcomputer doesn't detect IK returns of IC206 CXA2147Q 30 seconds or more.
H Stop	In case of HV becomes 33kV or more, IC502 detects it and shut-down H Drive Pulse. Microcomputer receives H Stop data from IC206 and makes LED blinking.
Audio	In case of DC component overlaps the output of Audio Amp., microcomputer detects it and makes LED blinking. Microcomputer forces to shut down the power.

Self-diagnosis block diagram


D1201
TIMER/STANDBY
Q006
55
IC002
µProcessor
8
49
47
50
48
20
21
22
5. AKB
6. H STOP
BUS
IC206
CXA2147
YCJ
3
4
43
35
34
27
6. HV STOP
IC502
HV Detector
IC004
EEPROM
IC1509
V Drive
Q1505
V Pulse Buffer
5. AKB
C Board
IC406
Audio AMP
Audio
DC Detect
3. OVP
2. OCP
IC651
OVP Buffer
OCP Buffer
OVP DETECT
OCP DETECT
4. V.STOP (V Pulse)

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE.
LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

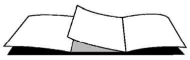
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

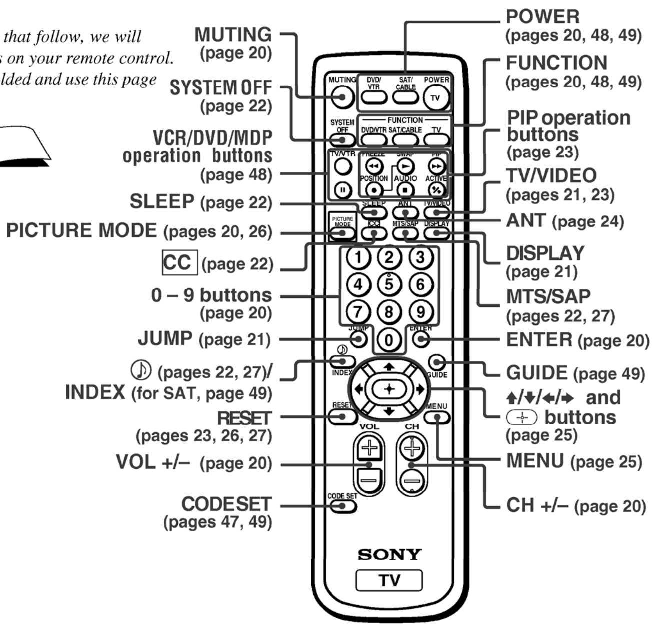
SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 4-077-171-11)

Remote Control

In the instructions that follow, we will refer to the buttons on your remote control. Keep this flap unfolded and use this page for reference.

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↑/↓/←/→ and ⊕ buttons (page 25)
MENU (page 25)
CH +/– (page 20)
SONY
TV

Getting to know the buttons on the remote control

Names of the buttons on the remote control are presented in different colors to represent the available functions.

Button color

Transparent	Press to select the component you want to control; e.g. VTR (VCR)/MDP/DVD Player, SAT (satellite receiver)/ CABLE, or projection TV.
Green	Buttons relevant to power operations, like turning the projection TV, SAT/CABLE, or VTR (VCR)/MDP/DVD Player on or off

Label color

White	TV/VTR (VCR)/MDP/DVD Player/SAT (satellite receiver)/CABLE operation buttons
Yellow	PIP operation buttons
Blue	SAT operation buttons
Green	S-Link operation buttons
Pink	DVD Player operation buttons

For a detailed explanation of most buttons, see "Watching the TV" on page 20.

Precautions

Safety

- Operate the projection TV only on 120 V AC.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.

Note on cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5° C (41° F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.

Installing and Connecting the Projection TV

Carrying Your Projection TV

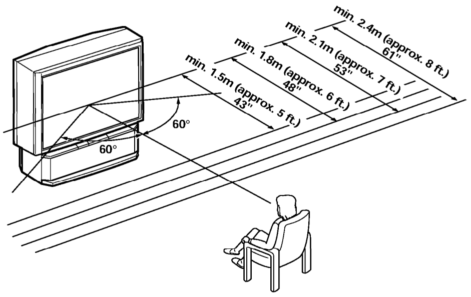
Carrying the projection TV requires three or more people.

For KP-48S75/53S75/53N77/61S75

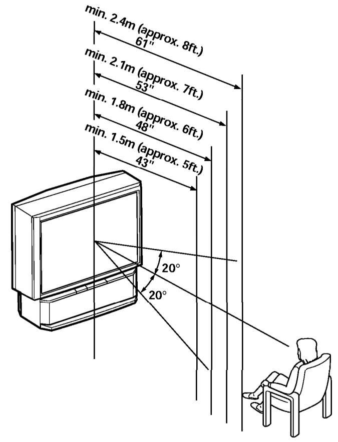
The projection TV has been equipped with casters for easy movement on a hard surface. Please move your projection TV using the casters.

Installing the Projection TV

Recommended viewing area (Horizontal)


min. 2.4m (approx. 8 ft.)
61"
min. 2.1m (approx. 7 ft.)
53"
min. 1.8m (approx. 6 ft.)
48"
min. 1.5m (approx. 5 ft.)
43"
60°
60°

Recommended viewing area (Vertical)


min. 2.4m (approx. 8ft.)
61"
min. 2.1m (approx. 7ft.)
53"
min. 1.8m (approx. 6ft.)
48"
min. 1.5m (approx. 5ft.)
43"
20°
20°

Installing and Connecting the Projection TV (continued)

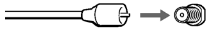
Connector Types

You may find it necessary to use some of the following connector types during set up.

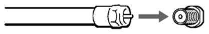
Coaxial cable

Standard TV cable and antenna cable

Plug Type

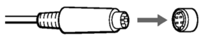

Push into connection.

Screw-on Type

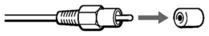

Screw into connection.

S Video cable

High quality video cable for enhanced picture quality


Align guides and push into connection.

Audio/Video cable


Push into connection.

Video - Yellow
Audio (Left) - White
Audio (Right) - Red

Some DVD Players and DTV Receivers are equipped with the following three video connectors.

Y - Green
PB (CB, Cb or B–Y) - Blue
PR (CR, Cr or R–Y) - Red

CONTROL S cable

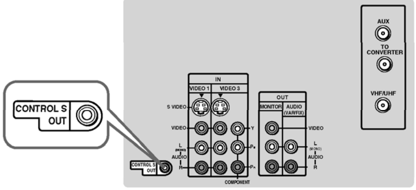
Sony cable for CONTROL S connection. This feature is exclusive to Sony products and allow greater control of all Sony equipment.

Push into connection.

About the CONTROL S OUT jack

To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.

(Rear of projection TV)


CONTROL S OUT
AUX
TO CONVERTER
VHF/UHF
IN
VIDEO 1
VIDEO 3
S VIDEO
VIDEO
L (MONO)
AUDIO
R
Y
PB
PR
COMPONENT
OUT
MONITOR
AUDIO (VAR/FIX)
VIDEO
L (MONO)
AUDIO
R
CONTROL S OUT

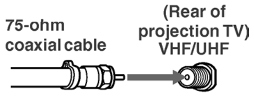
Making Connections

Connecting directly to a cable or an antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see ***A***); older homes will probably have 300-ohm twin lead cable (see ***B***); still other homes may contain both (see ***C***).
Use 75-ohm coaxial cable for improved picture quality (see ***A***).

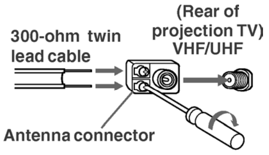
A

- VHF only
  or
- VHF/UHF
  or
- Cable

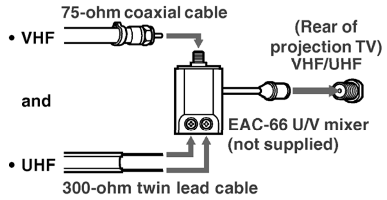

75-ohm coaxial cable
(Rear of projection TV)
VHF/UHF

B

- VHF only
  or
- UHF only
  or
- VHF/UHF

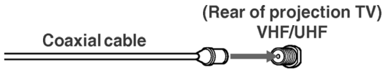

300-ohm twin lead cable
(Rear of projection TV)
VHF/UHF
Antenna connector

C


75-ohm coaxial cable
• VHF
and
• UHF
300-ohm twin lead cable
(Rear of projection TV)
VHF/UHF
EAC-66 U/V mixer (not supplied)

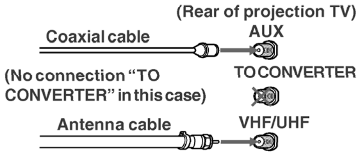
Cable or antenna

This is the simplest connection. Connection is made directly from the cable or antenna to the projection TV.


(Rear of projection TV)
VHF/UHF
Coaxial cable

Cable and antenna

You may find it convenient to use the following set up if your cable provider does not feature local channels that you are able to receive using an antenna.

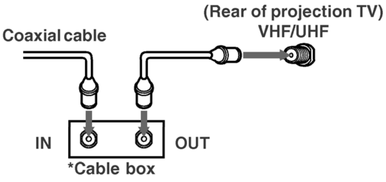

(Rear of projection TV)
AUX
Coaxial cable
(No connection "TO CONVERTER" in this case)
TO CONVERTER
Antenna cable
VHF/UHF

Select Cable or ANT mode by pressing ANT on the remote control.

Connecting a cable box

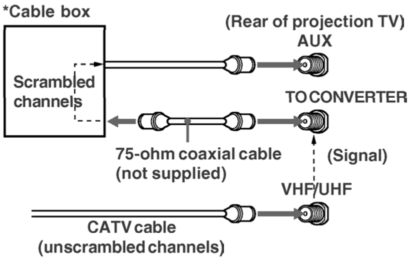
Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.

Also, set "Cable" to "On" in the Channel Set Up menu (page 31).


(Rear of projection TV)
VHF/UHF
Coaxial cable
IN
OUT
*Cable box

Cable box and cable

Some pay cable TV systems use scrambled or encoded signals requiring a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.)


*Cable box
Scrambled channels
(Rear of projection TV)
AUX
TO CONVERTER
75-ohm coaxial cable (not supplied)
(Signal)
VHF/UHF
CATV cable (unscrambled channels)

For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

Notes:

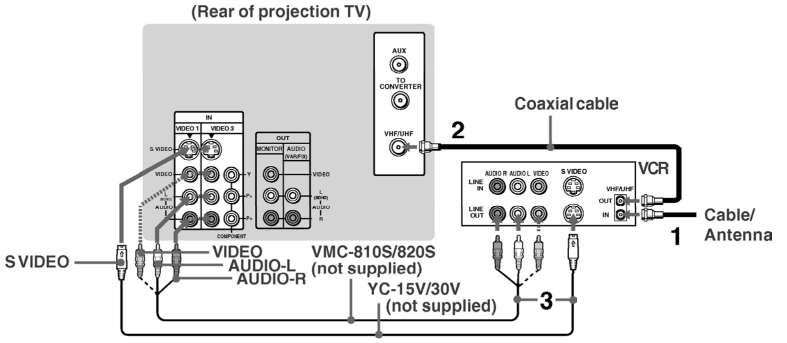
- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or Satellite Receiver (SAT)" on page 49)
- During PIP or Favorite Channel viewing, the AUX input can only be viewed in the main picture.

Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

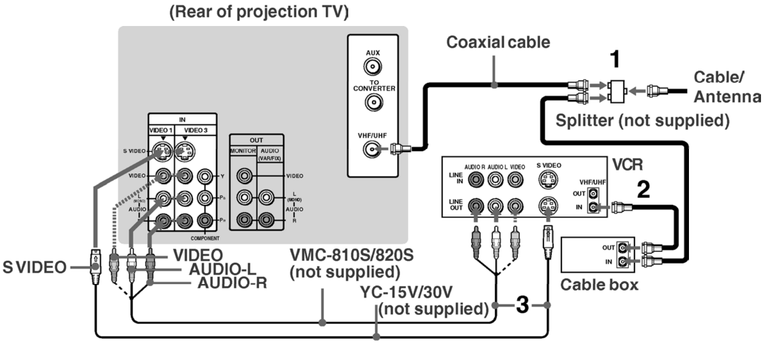
Connecting a cable TV system/ antenna to a VCR

1. Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF IN on the VCR.
2. Using a coaxial cable, connect VHF/UHF OUT on the VCR to VHF/UHF on the projection TV.
3. Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right**).


(Rear of projection TV)
AUX
TO CONVERTER
VHF/UHF
Coaxial cable
2
VCR
Cable/ Antenna
1
S VIDEO
VIDEO
AUDIO-L
AUDIO-R
VMC-810S/820S (not supplied)
YC-15V/30V (not supplied)
3

Connecting a VCR and projection TV to a cable box

1. Connect the single (input) jack of the splitter to the incoming cable connection, and connect the other two (output) jacks (using the coaxial cable) to IN on the cable box and VHF/UHF on the projection TV.
2. Using a coaxial cable, connect OUT on the cable box to VHF/UHF IN on the VCR.
3. Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right**).


(Rear of projection TV)
AUX
TO CONVERTER
VHF/UHF
Coaxial cable
1
Cable/ Antenna
Splitter (not supplied)
VCR
2
Cable box
S VIDEO
VIDEO
AUDIO-L
AUDIO-R
VMC-810S/820S (not supplied)
YC-15V/30V (not supplied)
3

Note:

- To view scrambled channels through the cable box, select the video input which the cable box is connected to by pressing TV/VIDEO.

* If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

** If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on the projection TV.

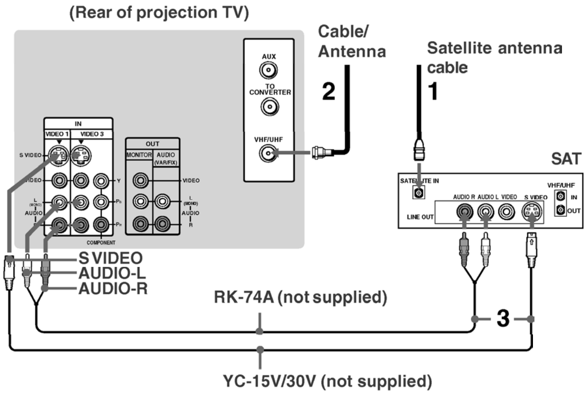
Connecting a satellite receiver (SAT)

1. Connect the cable from the satellite antenna to the satellite receiver.
2. Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF on the projection TV.
3. Using AUDIO and S VIDEO cables, connect AUDIO and S VIDEO OUT on the satellite receiver to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).

Note:

- To view input from the satellite receiver, select the video input which the satellite receiver is connected to by pressing TV/VIDEO on the remote control.

Disconnect all power sources before making any connections.


(Rear of projection TV)
Cable/ Antenna
Satellite antenna cable
2
1
SAT
AUX
TO CONVERTER
VHF/UHF
IN
VIDEO 1
VIDEO 3
OUT
MONITOR
AUDIO (VAR/FIX)
S VIDEO
VIDEO
AUDIO
COMPONENT
SATELLITE IN
AUDIO R
AUDIO L
VIDEO
S VIDEO
LINE OUT
IN
OUT
S VIDEO
AUDIO-L
AUDIO-R
RK-74A (not supplied)
3
YC-15V/30V (not supplied)

Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

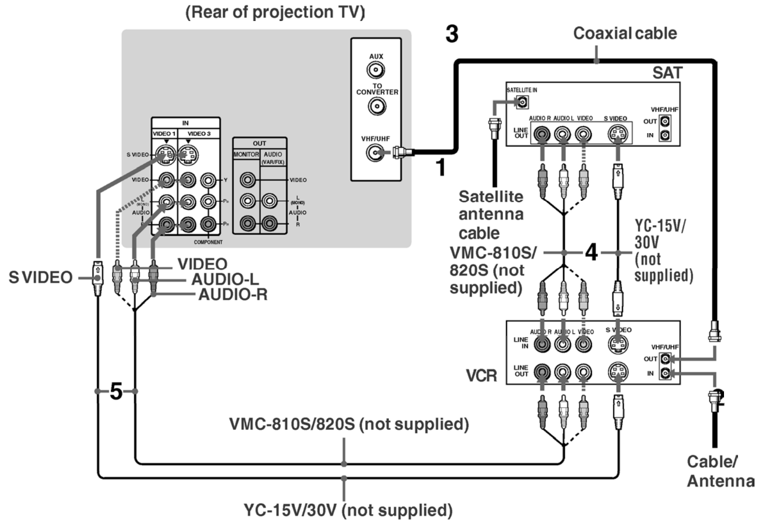
Connecting a satellite receiver (SAT) and a VCR

1. Connect the cable from the satellite antenna to the satellite receiver.
2. Attach the coaxial cable from the incoming cable connection or antenna to VHF/UHF IN on the VCR.
3. Using a coaxial cable, connect VHF/UHF OUT on the VCR to VHF/UHF on the projection TV.
4. Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the satellite receiver to AUDIO and S VIDEO IN on the VCR.
5. Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the VCR to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).

*If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Note:

- To view input from the satellite receiver or VCR, select the video input which your satellite receiver or VCR is connected to by pressing TV/VIDEO on the remote control.


(Rear of projection TV)
3
Coaxial cable
SAT
AUX
TO CONVERTER
VHF/UHF
IN
VIDEO 1
VIDEO 3
OUT
MONITOR
AUDIO (VAR/FIX)
S VIDEO
VIDEO
AUDIO
COMPONENT
SATELLITE IN
AUDIO R
AUDIO L
VIDEO
S VIDEO
LINE OUT
VHF/UHF
OUT
IN
1
Satellite antenna cable
VMC-810S/820S (not supplied)
4
YC-15V/30V (not supplied)
S VIDEO
VIDEO
AUDIO-L
AUDIO-R
LINE IN
LINE OUT
VCR
5
2
VMC-810S/820S (not supplied)
YC-15V/30V (not supplied)
Cable/ Antenna

Connecting a DTV (digital television) receiver

Before connecting, be sure to read the Operating Instructions of the DTV receiver.

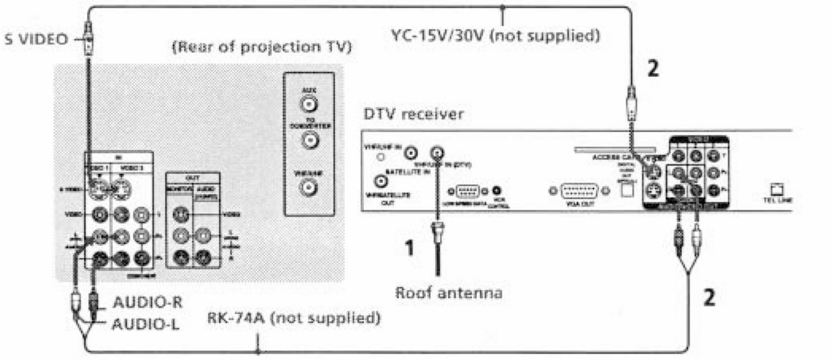
1 Attach the coaxial cable from the roof antenna to VHF/UHF IN (DTV) on the DTV receiver.

2 Using AUDIO and S VIDEO cables, connect AUDIO and S VIDEO OUT on the DTV receiver to AUDIO and S VIDEO IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).

Note:

- If your DTV receiver supports 480i signal from YPBPR, you can connect Y, PB and PR of VIDEO OUT on the DTV receiver to Y, PB and PR of VIDEO 3 IN on the projection TV using VIDEO cables.

Disconnect all power sources before making any connections.


S VIDEO
(Rear of projection TV)
YC-15V/30V (not supplied)
2
DTV receiver
1
Roof antenna
2
AUDIO-R
AUDIO-L
RK-74A (not supplied)

Connecting a camcorder

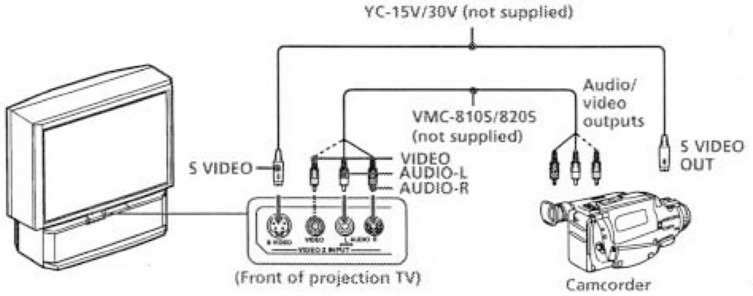
Use this connection to view a picture directly from your camcorder.

1 Using AUDIO and S VIDEO* cables, connect AUDIO and S VIDEO OUT on the camcorder to AUDIO and S VIDEO IN inside the drop-down panel on the front of the projection TV (White-AUDIO Left, Red-AUDIO Right**).

2 Press VIDEO 2 to select the video inputs from a camcorder.

* If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

** If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on the projection TV.


YC-15V/30V (not supplied)
VMC-810S/820S
(not supplied)
Audio/
video
outputs
S VIDEO
VIDEO
AUDIO-L
AUDIO-R
S VIDEO
OUT
(Front of projection TV)
Camcorder

Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

Connecting two VCRs for tape editing

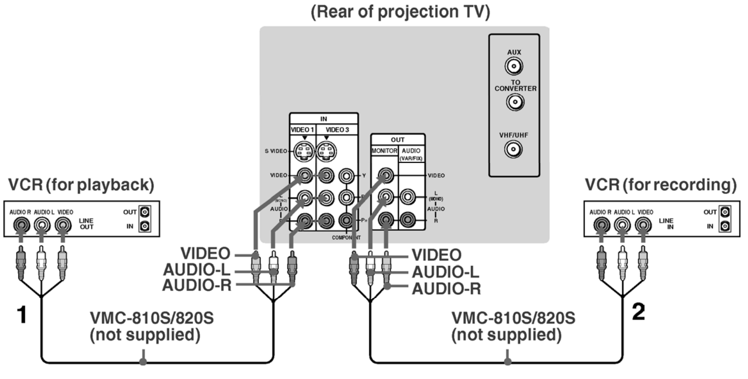
By connecting a second VCR to MONITOR OUT, you can record a program being played by the primary VCR to the second VCR or perform tape editing and dubbing.

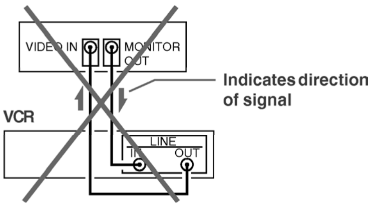
1 Connect the VCR intended for playback using the connection instructions on page 6 of this manual.

2 Using an AUDIO/VIDEO cable, connect AUDIO and VIDEO IN on the VCR intended for recording to AUDIO and VIDEO OUT of MONITOR OUT on the projection TV.

Notes:

- Do not change the input signal while editing through MONITOR OUT.
- When connecting a single VCR to the projection TV: if VCR LINE OUT is connected to VIDEO IN on the projection TV, ***do not*** connect MONITOR OUT on the projection TV to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.


(Rear of projection TV)
VCR (for playback)
VCR (for recording)
VIDEO
AUDIO-L
AUDIO-R
VIDEO
AUDIO-L
AUDIO-R
1
VMC-810S/820S
(not supplied)
VMC-810S/820S
(not supplied)
2


(Rear of projectionTV)
VIDEO IN
MONITOR OUT
Indicates direction of signal
VCR
LINE
IN
OUT

Connecting a DVD Player (Upper illustration)

Using an AUDIO and S VIDEO cables, connect AUDIO and S VIDEO IN on the projection TV to AUDIO and S VIDEO OUT on the DVD Player (White-AUDIO Left, Red-AUDIO Right).

Connecting a DVD Player with component video output connectors (Lower illustration)

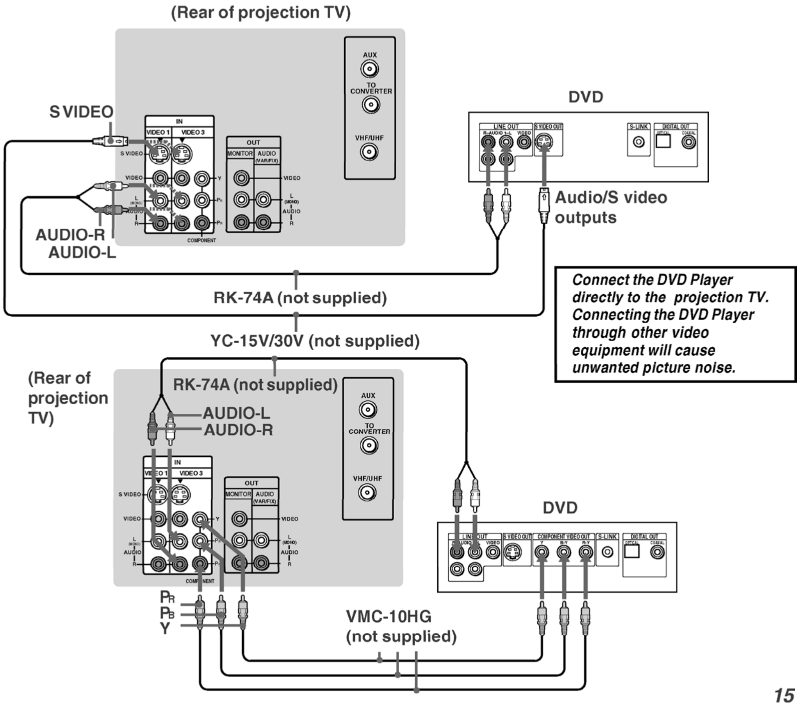
1 Using an AUDIO cable, connect AUDIO of LINE OUT on the DVD Player to AUDIO of VIDEO 3 IN on the projection TV (White-AUDIO Left, Red-AUDIO Right).

2 Using three yellow VIDEO cables, connect Y, P_B, and P_R of COMPONENT VIDEO OUT on the DVD Player to Y, P_B, and P_R of VIDEO 3 IN on the projection TV.

Notes:

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust "Noise Reduction" in the Video menu. (see "Noise Reduction" on page 22)
- Some DVD Player terminals may be labeled differently. If so, connect as follows:
  Connect Y (green) to Y.
  Connect P_B (blue) to C_B, C_b or B-Y.
  Connect P_R (red) to C_R, C_r or R-Y.

Disconnect all power sources before making any connections.


(Rear of projection TV)
S VIDEO
AUDIO-R
AUDIO-L
AUX
TO CONVERTER
VHF/UHF
IN
VIDEO 1
VIDEO 3
OUT
MONITOR
AUDIO (VAR/FIX)
COMPONENT
DVD
LINE OUT
S VIDEO OUT
S-LINK
DIGITAL OUT
Audio/S video outputs
RK-74A (not supplied)
YC-15V/30V (not supplied)
(Rear of projection TV)
RK-74A (not supplied)
AUDIO-L
AUDIO-R
DVD
COMPONENT VIDEO OUT
PR
PB
Y
VMC-10HG (not supplied)

Connect the DVD Player directly to the projection TV. Connecting the DVD Player through other video equipment will cause unwanted picture noise.

Installing and Connecting the Projection TV (continued)

Connecting an audio system

For more dynamic sound, connect an audio system to the projection TV.

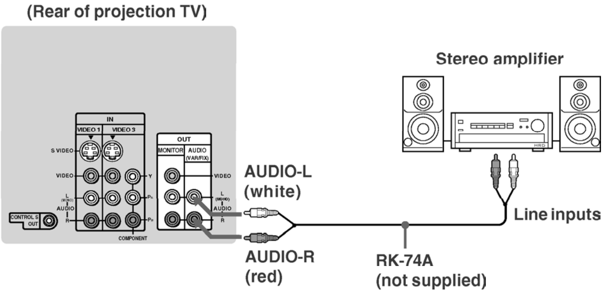
1 Using an AUDIO cable, connect AUDIO (VAR/FIX) OUT on the projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on the stereo.

2 Set the stereo to the chosen Line input and use the Audio menu to set the audio output and switch the TV's speakers off. (see "Audio Out" and "Speaker" on page 28)

Note:

- You can adjust VOLUME, "Bass," "Treble," "Balance," "MTS/SAP" and "Effect" with the supplied remote control. The control items except VOLUME can be adjusted only when "Audio Out" is set to "Variable" in the Audio menu. (see "Audio Out" on page 28)

Disconnect all power sources before making any connections.

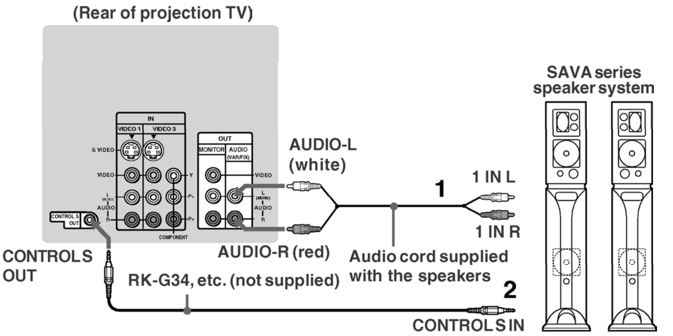

(Rear of projection TV)
IN
VIDEO 1
VIDEO 3
OUT
MONITOR
AUDIO (VAR/FIX)
CONTROL S OUT
COMPONENT
Stereo amplifier
AUDIO-L (white)
AUDIO-R (red)
Line inputs
RK-74A (not supplied)

Connecting a Sony SAVA series speaker system

Use this connection to control the speaker's Dolby* Pro Logic surround system and super woofer mode with the remote control. (see "SAVA SP Control" on page 28)

1. Using the AUDIO cable supplied with the speaker to AUDIO (VAR/FIX) OUT on the projection TV.
2. Using the CONTROL S cable, connect CONTROL S IN on the speaker to CONTROL S OUT on the projection TV.

Disconnect all power sources before making any connections.


(Rear of projection TV)
IN
VIDEO 1
VIDEO 3
S VIDEO
VIDEO
AUDIO
CONTROL S OUT
COMPONENT
OUT
MONITOR
AUDIO (VAR/FIX)
AUDIO-L (white)
AUDIO-R (red)
1
1 IN L
1 IN R
Audio cord supplied with the speakers
CONTROL S OUT
RK-G34, etc. (not supplied)
2
CONTROL S IN
SAVA series speaker system

---

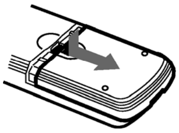
* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol DD and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

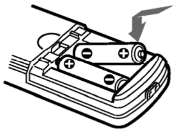
Basic Set Up

Using the Remote Control

Inserting the batteries

Insert two size AA (R6) batteries (supplied) by matching the + and – on the batteries to the diagram inside the remote control's battery compartment.





Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 47)

Setting Up the Projection TV Automatically

The AUTO SET UP feature will allow you to set the on-screen language and set all receivable channels.

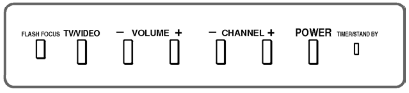
The AUTO SET UP feature does not apply for installations that use a cable box for all channel selection.

You can also set up the projection TV manually. (see "Using the Channel Set Up menu" on pages 30 and 31)

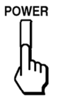
Notes:

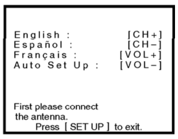
- Before you perform AUTO SET UP again, make sure that the input from ANT (not AUX) is selected by pressing ANT until "AUX" does not appear next to the channel number.
- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- When you perform AUTO SET UP, all the settings in the Video, and Audio menus are reset to the factory settings.

Using the buttons on the front panel of the projection TV:


FLASH FOCUS
TV/VIDEO
– VOLUME +
– CHANNEL +
POWER
TIMER/STAND BY

1. Press POWER to turn on the projection TV.
   The AUTO SET UP screen appears.

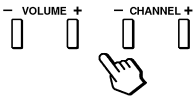


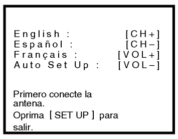


English : [CH+]
Español : [CH–]
Français : [VOL+]
Auto Set Up : [VOL–]

First please connect the antenna.
Press [SET UP] to exit.

2. Press CHANNEL + to select English, CHANNEL – to select Español or VOLUME + to select Français.
   The screen will change to reflect your choice.

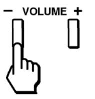

– VOLUME +
– CHANNEL +

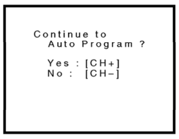


English : [CH+]
Español : [CH–]
Français : [VOL+]
Auto Set Up : [VOL–]

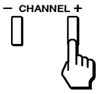
Primero conecte la antena.
Oprima [SET UP] para salir.

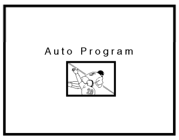
3 Press VOLUME – to continue.




Continue to
Auto Program ?
Yes : [CH+]
No : [CH–]

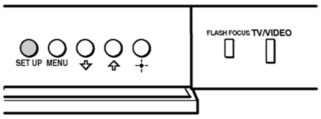
4 Press CHANNEL + to preset channels automatically.




Auto Program

"Auto Program" appears and the projection TV starts scanning and presetting channels automatically. While scanning, the received channel will be displayed on the sub screen. When all the receivable channels are stored, the lowest numbered channel is displayed.

To perform AUTO SET UP again



Press SET UP inside the drop-down panel on the projection TV and perform steps 2-4 above.

Press SET UP again to exit.

Adjusting the Convergence Automatically (FLASH FOCUS)

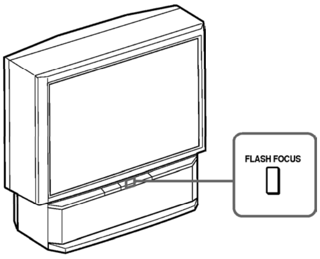
The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence.

The FLASH FOCUS feature allows you to adjust the convergence automatically.

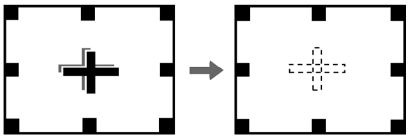
Tips

- *It is recommended to perform FLASH FOCUS about 30 minutes after the projection TV is first turned on.*
- *You can also perform FLASH FOCUS using the Set Up menu on page 31.*



Press FLASH FOCUS.

The cross pattern appears and FLASH FOCUS begins to work. The adjustment is completed when the cross pattern becomes white.



Note:

- FLASH FOCUS is canceled if you perform any other function while FLASH FOCUS is working.

Using Your New Projection TV

Watching the TV

Many TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.

Using the White Labeled Buttons for Projection TV Operations	
TV (FUNCTION)	Activates the remote control for use with the projection TV.
TV POWER	Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
⓪-⑨ and ENTER	Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/–	Press to scan through the channels (+ up or – down). **Speed Surf** **1** Press and hold CH + or – to change the channel number rapidly. **2** Release to display the desired channel.
VOL +/–	Press to adjust the volume (+ up or – down).
MUTING	Press to mute the sound. "Muting" will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.

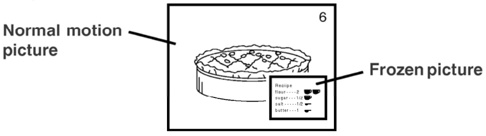
PICTURE MODE

Press PICTURE MODE repeatedly to directly choose one of five different video modes that best suits the program you are watching.

Vivid: Select for enhanced picture contrast and sharpness.
Standard: Select to display a standard picture for normal viewing environments.
Movie: Select to display a finely detailed picture for low light environments.
Personal 1, Personal 2: Select to customize the "Picture Adjustment" of the Video menu according to your personal preference.

When you select "Movie," "Personal 1" and "Personal 2," you can also perform the "Picture Adjustment" (such as "Brightness," "Color," etc.) to suit your taste. For details, see "Mode" on page 26.

Using the White Labeled Buttons for Projection TV Operations

TV/VIDEO	Press repeatedly to scroll through available video inputs: **TV, VIDEO 1, VIDEO 2** and **VIDEO 3.** If you select "Skip" as a "Video Label" in the Set Up menu, your projection TV will skip the video input you selected. (see "Video Label" on page 35)
JUMP	Press to alternate or *jump* back and forth between two channels. The projection TV will jump between the current channel and the last channel selected using the 0-9 buttons.
FREEZE *(yellow labeled button)*	This is useful when you need to copy down information that appears on the TV's screen. Press to *freeze* the desired picture. The frozen picture is displayed in the window picture while viewing the normal picture of the current channel in the main picture.  To change the location of the window picture, press ↑, ↓, ← or →. Press FREEZE again to display the normal picture.
DISPLAY	Press to display the channel number, current time, channel caption (if set), and MTS/SAP mode (if SAP is selected). The SAP indication disappears and the other indications dim three seconds later. To turn the display off, press DISPLAY again.

(continued)

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using Your New Projection TV (continued)

Using the White Labeled Buttons for Projection TV Operations

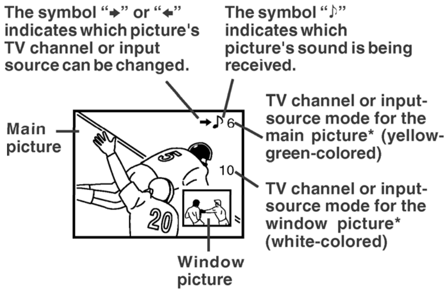
CC	Press repeatedly to scroll through available displays: **XDS (Extended Data Service)** Displays a network name, program name, program type, program length, program description, call letters and time of the show if the broadcaster offers this service. **Caption Vision** Displayed on the screen if the broadcaster offers this service. (see "Caption Vision" on page 34) **No display** "Off" appears and the display is canceled.
SLEEP	Press repeatedly until the projection TV displays the approximate time in minutes (30, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until "Sleep Off" appears.
ANT *(AUX input)*	Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable and antenna" or "Cable box and cable" on page 9)
MTS/SAP	Press to scroll through the Multi-channel TV Sound (MTS) options: **Stereo, SAP, Mono** and **Auto SAP.** (see "MTS/SAP" on page 27)
♪	Press to select an audio option: **Simulated, Surround, BBE** and **Effect Off.** (see "Effect" on page 27)
TV/VTR	Press when you are finished using a VCR and you want to switch to the TV input. The VCR power will remain on.
SYSTEM OFF	Press to turn off the projection TV and all other Sony equipment.

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Watching Two Programs at One Time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture.

You can move the window picture to any location on the screen.



The symbol "➡" or "⬅" indicates which picture's TV channel or input source can be changed.
The symbol "♪" indicates which picture's sound is being received.
Main picture
6
10
TV channel or input-source mode for the main picture* (yellow-green-colored)
TV channel or input-source mode for the window picture* (white-colored)
Window picture

* It will dim in about 3 seconds.

Tip

If you press RESET in PIP mode, the window picture will move to the bottom right (factory-preset location).

Using the Yellow Labeled Buttons for PIP Operations	
PIP	Press to display a window picture. Each time you press this button, the picture size will change (1/9 →1/16 →no display). To close the window picture, press PIP repeatedly until it disappears.
POSITION or	Press POSITION repeatedly to change the location of the window picture (counterclockwise) around the main picture. You can also change the location by pressing the ⬆, ⬇, ⬅ or ➡ button. The window picture moves in the direction of the arrow indicated on the pressed button.
ACTIVE	Press to select either the main or window picture in order to change the TV channel or video source using the white labeled buttons below. The symbol "➡" (or "⬅") will appear to indicate which picture's channel or input mode can be changed.
TV/VIDEO *(white labeled button)*	Press repeatedly to scroll through the available video inputs for the picture on which the symbol "➡" (or "⬅") is displayed. (see "TV/VIDEO" on page 21)

Using Your New Projection TV (continued)

Using the Yellow Labeled Buttons for PIP Operations	
CH + – or 0 - 9 and ENTER or **JUMP** *(white labeled button)*	Press to select the TV channel on which the symbol "➡" is displayed. (for details, see "Watching the TV" on page 20) **Speed Surf** **1** Press and hold CH + or – to change the channel number rapidly. **2** Release to display the desired channel.
ANT *(white labeled button)*	Press to change between the VHF/UHF input and the AUX input for the picture on which the symbol "➡" (or "⬅") is displayed.
AUDIO	Press to alternate sound between the main picture and the window picture. The symbol "♪" will appear for a few seconds to indicate which picture's sound is being received.
FREEZE	This is useful when you need to copy down information of the main picture. Press to freeze the desired scene in the main picture. The frozen picture is displayed in the window picture while viewing the normal picture in the main picture. The window picture size is automatically changed to 1/9 if it was 1/16. Press again to resume normal PIP viewing.
SWAP	Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be exchanged.

REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Note:

- If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "Channel Skip/ Add" on page 31)

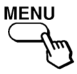
Adjusting Your SET UP (menus)

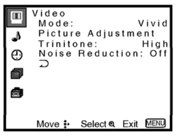
Learning Menu Selection

Use the MENU button to access a menu and use the ↑, ↓, ←, → and ⊕ buttons to alter the settings. Use the following example to learn how to modify settings.

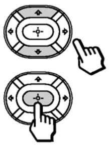
1 Press the MENU button.

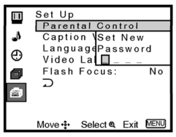
The main menu appears.




Video
Mode: Vivid
Picture Adjustment
Trinitone: High
Noise Reduction: Off
↩
Move ✣ Select ⊕ Exit MENU

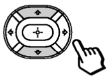
2 Press ↑ or ↓ to highlight the desired menu and press ⊕ to activate it.

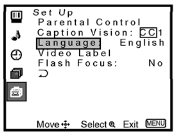



Set Up
Parental Control
Caption Vision Set New
Language Password
Video Label _ _ _ _
Flash Focus: No
↩
Move ✣ Select ⊕ Exit MENU

You may also press → to activate your selection.

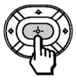
3 Press ↑ or ↓ to highlight the desired option.



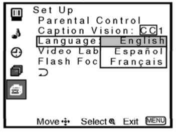

Set Up
Parental Control
Caption Vision: CC1
Language English
Video Label
Flash Focus: No
↩
Move ✣ Select ⊕ Exit MENU

4 Press ⊕.

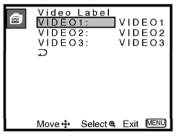
Options for your selection (Pop-up menu or Adjusting menu) will be displayed.



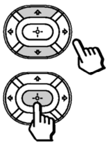
Pop-up menu

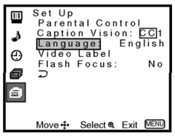

Set Up
Parental Control
Caption Vision: CC1
Language English
Video Lab Español
Flash Foc Français
↩
Move ✣ Select ⊕ Exit MENU

Adjusting menu


Video Label
VIDEO1: VIDEO1
VIDEO2: VIDEO2
VIDEO3: VIDEO3
↩
Move ✣ Select ⊕ Exit MENU

5 Press ↑ or ↓ to make your selection and press ⊕ to activate it.
The previous screen will reappear.




Set Up
Parental Control
Caption Vision: CC1
Language English
Video Label
Flash Focus: No
↩
Move ✣ Select ⊕ Exit MENU

Some adjustment menus may require further operations. For details, see each menu option.

To return to the previous screen (except for the slider adjustment menus), choose "↩" at the bottom of the menu and press ⊕ or ←.

6 Once you have completed all menu corrections, press MENU to exit the menu screens.

To exit from the menus at any time

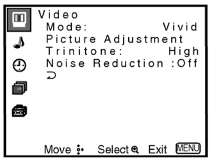
Press MENU.

Tip

You can also use the MENU, ⇧/⇩ and ✣ buttons inside the front drop-down panel of the projection TV for the menu selection.

Adjusting Your SET UP (menus) (continued)

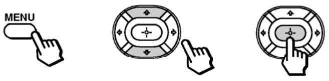
Using the Video Menu


Video
Mode: Vivid
Picture Adjustment
Trinitone: High
Noise Reduction :Off
↩
Move ✣ Select ⊕ Exit MENU

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 25.

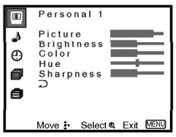
To select the Video menu:

Display → Highlight → Select

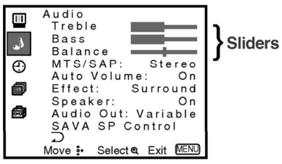


To restore the factory settings

Press RESET on the remote control while the Video menu is selected. To restore each "Mode" to the factory setting, press RESET after selecting the mode to be reset.

Mode *Customized picture viewing*	You can choose one of five different video modes that best suits the program you are watching. You can also perform the "Picture Adjustment" (such as "Brightness," "Color," etc.) for "Movie," "Personal 1" or "Personal 2" to suit your taste. **Vivid:** Select for enhanced picture contrast and sharpness. **Standard:** Select to display a standard picture for normal viewing environments. **Movie:** Select to display a finely detailed picture for low light environments. **Personal 1, Personal 2:** Select to customize the "Picture Adjustment" of the Video menu according to your personal preference. *Press PICTURE MODE on the remote control for direct selection of a "Mode" setting.*
Picture Adjustment *Picture adjustment*	First select "Movie," "Personal 1" or "Personal 2" from "Mode," then highlight the desired option using the ↑ or ↓ button and press ⊕ to display the adjusting slider of the selected option.  Personal 1 / Picture / Brightness / Color / Hue / Sharpness / ↩ / Move ✣ Select ⊕ Exit MENU **Picture:** Adjust slider right (up) to increase picture contrast; left (down) to decrease it. **Brightness:** Adjust slider right (up) to brighten the picture; left (down) to darken it. **Color:** Adjust slider right (up) to increase color intensity; left (down) to decrease it. **Hue:** Adjust slider right (up) to increase the green tones; left (down) to increase the red tones. **Sharpness:** Adjust slider right (up) to sharpen the picture; left (down) to soften it.
Trinitone *White intensity adjustment*	**High:** Select to give the white colors a blueish tint. **Medium:** Select to give the white colors a neutral tint. **NTSC Standard:** Select to give the white colors a reddish tint.
Noise Reduction *Noise reduction*	Select **On** to reduce picture noise. Select **Off** to cancel the feature. *"Noise Reduction" can be set separately from the "Mode" settings of the Video menu.*

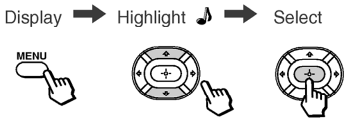
Using the Audio Menu



Audio
Treble
Bass
Balance
MTS/SAP: Stereo
Auto Volume: On
Effect: Surround
Speaker: On
Audio Out: Variable
SAVA SP Control

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 25.

To select the Audio menu:



To restore the factory settings

Press RESET on the remote control while the Audio menu is selected.

Treble *Sound adjustment*	Adjust slider right (up) to increase high pitched sounds. Adjust slider left (down) to decrease high pitched sounds.
Bass *Sound adjustment*	Adjust slider right (up) to increase low pitched sounds. Adjust slider left (down) to decrease low pitched sounds.
Balance *Sound adjustment*	Adjust slider right (up) to emphasize right speaker volume. Adjust slider left (down) to emphasize left speaker volume.
MTS/SAP *Enjoy stereo, bilingual and mono programs.*	When the sound is intermittent due to poor reception conditions, select "Stereo" or "SAP." **Stereo:** Select for stereo reception when viewing a program broadcast in stereo. **SAP:** Select to listen to a bilingual broadcast. (non-SAP programs will be muted when this feature is selected) **Mono:** Select for mono reception. (use to reduce noise during stereo broadcasts) **Auto SAP:** Select to listen to SAP when a SAP program is broadcast and return to stereo reception automatically for non-SAP programs. ***Quick MTS access:*** *Press MTS/SAP on the remote control to cycle through the "MTS/SAP" options as follows: Stereo → SAP → Mono → Auto SAP.*
Auto Volume *Adjust the sound level.*	**On:** Sound output coming from TV speakers have the volume level equalized for all channel audio inputs when broadcasts have different sound transmission levels. **Off:** Sound output coming from the TV speakers varies according to the received channel.
Effect *Customizes surround sound effects based on the program's audio type.*	"Effect" can only be set when "Speaker" is set to "On" or "Off." **Simulated:** Adds a surround-like effect to mono programs. **Surround:** Simulates sound with the atmosphere of a movie theater or a concert hall for stereo programs. **BBE*:** Centers the sound intensity to the front, creating an effect as if you were seated in front of an orchestra. **Off:** Normal stereo or mono reception. ***Quick Effect access:*** *Press ♪ on the remote control to cycle through the "Effect" options as follows: Simulated → Surround → BBE → Effect Off.*

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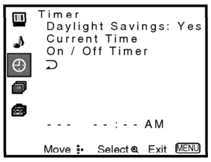
* The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

(continued)

Adjusting Your SET UP (menus) (continued)

Speaker *Custom selection of audio output source*	**On:** Select to listen to the sound from the projection TV speakers alone. **Off:** Select to turn off the projection TV speakers and listen to the projection TV's sound only through an external audio system's speakers. **SAVA SP:** Select to turn off the projection TV speakers and listen to the projection TV's sound only through the Sony SAVA series speaker system. You can adjust volume, muting, "Surround Mode," and "Super Woofer Mode" with the projection TV's remote control. (see "SAVA SP Control" below)
Audio Out *Easy control of volume adjustment*	"Audio Out" can only be set when "Speaker" is set to "Off." **Fixed:** Sound output is held at a fixed level through the audio system. Use the AV receiver's remote control to adjust the volume. **Variable:** Sound output varies according to the TV settings. Useful when you want to use your remote control to control the output of a separate audio system.
SAVA SP Control *Controls Sony SAVA speaker's mode.*	"SAVA SP Control" can only be set when Sony SAVA speaker system is connected to the AUDIO (VAR/FIX) OUT connectors and "Speaker" is set to "SAVA SP." (see "Speaker" above) You can also adjust the SAVA speaker's volume using VOL +/– of the projection TV's remote control. **Surround Mode:** Select to activate the SAVA Speaker's surround mode. **Super Woofer Mode:** Select to activate the SAVA Speaker's super woofer mode.

Using the Timer Menu


Timer
Current Time
On / Off Timer
- - -   - - : - - AM
Move
Select
Exit
MENU

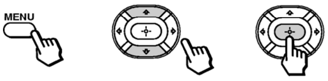
Daylight Savings: Yes

After setting the clock you can use the timer to turn the projection TV on and off.

For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 25.

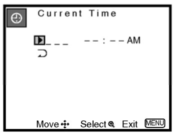
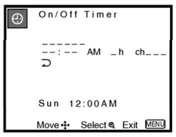
To select the Timer ◷ menu:

Display ➡ Highlight ◷ ➡ Select



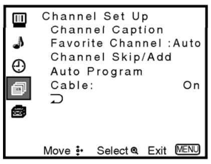
Tip

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

Daylight Savings *Automatically adjusts the time.*	**Spring:** Select **Yes** to compensate for Daylight Saving Time. The current time automatically moves ahead one hour. **Fall:** Select **No** at the end of Daylight Saving Time. The current time moves back one hour.
Current Time *Necessary for the Timer.*	 Current Time ▶_ _ _ - - : - - AM Move Select Exit MENU 1 Press ⊕, then press ↑ or ↓ until the current day (Sun-Sat) is displayed, and press ⊕. 2 Press ↑ or ↓ until the current hour (1-12) and AM/PM is displayed, and press ⊕. 3 Press ↑ or ↓ until the current minute (00-59) is displayed, and press ⊕. The clock has now started. Press MENU to exit.
On/Off Timer *Wake up or scheduled viewing.*	 On/Off Timer _ _ _ _ _ _ - - : - - AM _h ch_ _ _ Sun 12:00AM Move Select Exit MENU 1 Press ↑ or ↓ until the desired day or range of days (Every Sun-Sat, Every Mon-Fri, Sunday, Monday, ... Saturday, Every Sunday, ... Every Saturday) is displayed, and press ⊕. 2 Press ↑ or ↓ until the time (hours and minutes) that you want the projection TV to remain on is displayed, and then press ⊕. 3 Press ↑ or ↓ to set the time duration (maximum of 6 hours) and press ⊕. 4 Press ↑ or ↓ to select the desired channel and press ⊕. The timer is now set. The TIMER/STAND BY indicator on your projection TV will be lit. Press MENU to exit. To cancel your timer setting, press RESET while in the On/Off Timer window. Performing Auto Program will erase all Timer settings.

Adjusting Your SET UP (menus) (continued)

Using the Channel Set Up Menu

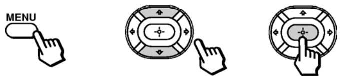

Channel Set Up
Channel Caption
Channel Skip/Add
Auto Program
Move
Select
Exit
MENU

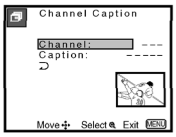
Favorite Channel :Auto
Cable: On

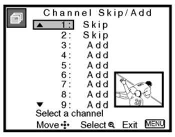
For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 25.

To select the Channel Set Up ❐ menu:

Display ➡ Highlight ❐ ➡ Select



Channel Caption *Easy recognition of the channel you are watching*	 Channel Caption Channel: - - - Caption: - - - - - Move Select Exit MENU You can add a caption for up to 32 channels of VHF/UHF input. With the Channel Caption window open: 1 Press ⊕ and then press ↑ or ↓ to select the desired channel. You can view the channel that is selected with the Channel Caption menu in the sub screen. 2 Press ⊕. 3 Press ↑ or ↓ to display the first letter or number of the caption and press ⊕ to select it. Repeat until up to five digits are selected. 4 Press ⊕. *To erase a caption, press RESET.*
Favorite Channel *User's favorite channels*	The Favorite Channel feature enables easy access to the eight channels that you preset (or the last channel that you were watching). (for details on how to set up this feature, see "Setting and Selecting Favorite Channel" on page 32)

Channel Skip/Add *Skips unnecessary channels.*	 Channel Skip/Add 1: Skip 2: Skip 3: Add 4: Add 5: Add 6: Add 7: Add 8: Add 9: Add Select a channel Move Select Exit MENU After AUTO SET UP, you can erase unnecessary channels from the channel preset memory. With the Channel Skip/Add window open: **1** Press ⬆ or ⬇ to select the desired channel. You can view the channel that is selected with the Channel Skip/Add menu in the sub screen. You can also use CH +/– or 0–9 and ENTER buttons. **2** Press ⊕. **3** Press ⬆ or ⬇ to select **Skip**, and press ⊕. The selected channel will be erased. If you want to re-enter the skipped channel, follow the steps above and select **Add**.
Auto Program *Automatic channel presetting*	Select **Yes** to signal the projection TV to automatically program all receivable channels. When all the receivable channels are stored, the lowest numbered channel is displayed. Select **No** to cancel Auto Program.
Cable *Cable system setting*	Select **On** if your projection TV is connected to a cable system. Select **Off** if your projection TV is connected to an antenna.

Adjusting Your SET UP (menus) (continued)

Setting and Selecting Favorite Channel

The Favorite Channel feature of your projection TV enables easy access to the eight channels that you preset (or the last channel that you were watching).

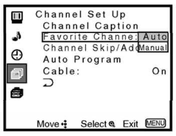
Your Favorite Channel options can be set automatically or manually.

The factory setting for "Favorite Channel" is "Auto."

When "Favorite Channel" is set to "Auto," the last eight channels selected with the 0–9 buttons will be set as Favorite Channel options. If you want to input your own selections as Favorite Channel settings, set to "Manual."

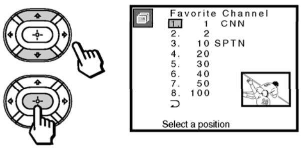
Setting Favorite Channel manually

1 Select "Favorite Channel" from the Channel Set Up menu. (see page 30)

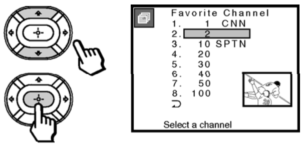

Channel Set Up
Channel Caption
Favorite Channe: Auto
Channel Skip/Add Manual
Auto Program
Cable: On
Move Select Exit MENU

2 Press ⬆ or ⬇ to select "Manual" and press ⊕.

The Favorite Channel menu will appear. If you set Channel Caption names (e.g. CNN, HBO), they will also be displayed. (see "Channel Caption" on page 30)

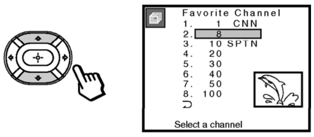

Favorite Channel
1. 1 CNN
2. 2
3. 10 SPTN
4. 20
5. 30
6. 40
7. 50
8. 100
Select a position

3 Press ⬆ or ⬇ to select a position (1–8), and press ⊕.


Favorite Channel
1. 1 CNN
2. 2
3. 10 SPTN
4. 20
5. 30
6. 40
7. 50
8. 100
Select a channel

4 Press ⬆ or ⬇ to select a channel and press ⊕.

You have now selected a favorite channel.


Favorite Channel
1. 1 CNN
2. 8
3. 10 SPTN
4. 20
5. 30
6. 40
7. 50
8. 100
Select a channel

5 Use ⬆ and ⬇ to program other favorite channels. (Follow steps 3 and 4.)

6 Press MENU when you have finished.

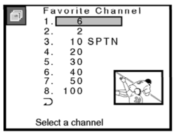
Your favorite channels are now ready for use.

Changing Favorite Channel choices

You have the option of returning to the Favorite Channel screen to adjust any of your favorite channel choices.

Simply proceed as described in "Setting Favorite Channel manually" (skip step 2 if "Manual" is already selected).

When you reach step 3, select the position you want to change and press ⊕. Press ↑ or ↓ to select a new channel.


Favorite Channel
1. 6
2. 2
3. 10 SPTN
4. 20
5. 30
6. 40
7. 50
8. 100
Select a channel

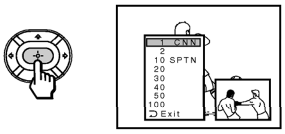
Press MENU when you are done.

Using Favorite Channel

You can use the Favorite Channel feature to directly select the channel you want to watch.

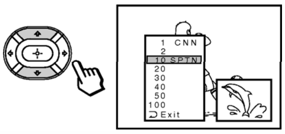
1 Press ⊕ once.

The favorite channel menu and a window picture will be superimposed over the current channel. The window picture displays the channel selected from the menu.


1 CNN
2
10 SPTN
20
30
40
50
100
Exit

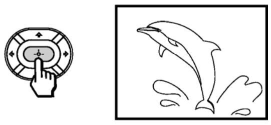
2 Press ↑ or ↓ to select the channel that you wish to view from the menu.

The picture of the selected channel will be displayed in the window picture.


1 CNN
2
10 SPTN
20
30
40
50
100
Exit

3 Press ⊕ to select the channel.

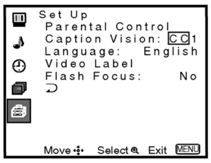
The selected channel will be displayed for normal viewing.



To cancel the favorite channel menu before selecting a channel, press ↑ or ↓ to select "Exit" at the bottom of the menu and press ⊕.

Adjusting Your SET UP (menus) (continued)

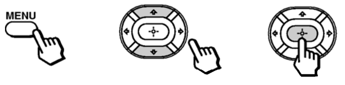
▣ Using the Set Up Menu

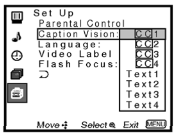

Set Up
Parental Control
Caption Vision: CC1
Language: English
Video Label
Flash Focus: No
Move
Select
Exit
MENU

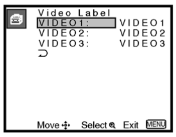
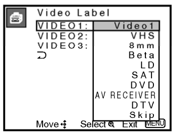
For detailed information on using the remote control to modify menu settings, refer to "Learning Menu Selection" on page 25.

To select the Set Up ▣ menu:

Display → Highlight ▣ → Select



Parental Control *Blocks programs unsuitable for children.*	Allows you to block TV programs that you feel are unsuitable for your children. (see "Using the Parental Control Feature" on page 36 for details)
Caption Vision *Television closed caption display*	 Set Up Parental Control Caption Vision: CC1 Language: Video Label Flash Focus: CC2 CC3 CC4 Text1 Text2 Text3 Text4 Move Select Exit MENU Some programs are broadcast with Caption Vision. To display "Caption Vision," select CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. Then press the CC button until "Caption Vision" is displayed. CC1, CC2, CC3 or CC4 displays a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 displays network/station information presented using either half or the whole screen. **Notes:** • Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of the intended text. • XDS, Caption Vision, and the status display cannot be used at the same time.
Language *Preferred language*	Select from available languages (**English, Español** or **Français**) to display all menus in your language of choice.

Video Label *Easy recognition of connected equipment (e.g. SAT, VHS, etc.)*	This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).  Video Label VIDEO1: VIDEO1 VIDEO2: VIDEO2 VIDEO3: VIDEO3 Move Select Exit MENU With the Video Label window open: **1** Press ↑ or ↓ to select the input mode you want to label and press ⊕. **2** Press ↑ or ↓ to select the label and press ⊕.  Video Label VIDEO1: Video1 VIDEO2: VHS VIDEO3: 8mm Beta LD SAT DVD AV RECEIVER DTV Skip Move Select Exit MENU **Video Label Options:** **VIDEO 1**: VIDEO 1, VHS, 8mm, Beta, LD, SAT, DVD, AV RECEIVER, DTV, Skip **VIDEO 2/3**: VIDEO 2/VIDEO 3, VHS, 8mm, Beta, LD, SAT, DVD, DTV, Skip *If you select "Skip," your projection TV will skip this connection when you scan through video sources using the TV/VIDEO button.*
Flash Focus *Automatic convergence adjustment*	Select **Yes** and press ⊕ to start Flash Focus adjustment. When the adjustment is completed, the cross pattern on the screen becomes white. (for details, see page 19) Select **No** to cancel Flash Focus.

Adjusting Your SET UP (menus) (continued)

Using the Parental Control Feature

The TV programs and movies shown on TV are given a rating signal based on the following rating systems.

In U.S.A.: U.S. Television Parental Guidelines to rate television programs (U.S. TV ratings), and Motion Picture Association of America (MPAA) Guidelines to rate movies including those shown on TV (movie ratings)

In Canada: Canadian English Language ratings to rate television programs in English, and Canadian French Language ratings to rate those in French.

To block programs you feel are unsuitable for your children, you need to set the TV for the desired rating systems. Sony's predetermined ratings are also available.

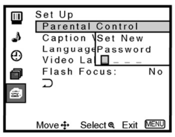
See pages 43 to 45 for a description of the ratings.

The Parental Control feature of the TV functions by receiving the rating signal from your local broadcasting station or cable service provider.

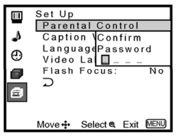
Activating the Parental Control Feature

First, set a password, then select your desired rating from Sony's predetermined ratings.

1 Select "Parental Control" from the Set Up menu. (see page 34)

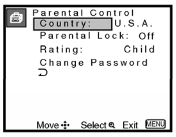

Set Up
Parental Control
Caption V
Language
Video La
Set New
Password
Flash Focus: No
Move Select Exit MENU

2 Enter a four digit password* using the 0–9 buttons.

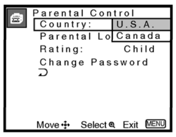

Set Up
Parental Control
Caption V
Language
Video La
Confirm
Password
Flash Focus: No
Move Select Exit MENU

* Do not enter "4357" corresponding to "HELP" on a phone number pad. (see page 43)

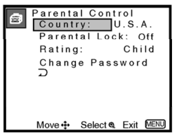
3 To confirm the password, re-enter the same password with the 0–9 buttons.
Your password is stored and the Parental Control menu automatically appears.
If you want to change the password, see page 42.


Parental Control
Country: U.S.A.
Parental Lock: Off
Rating: Child
Change Password
Move Select Exit MENU

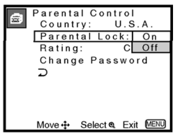
4 Make sure that "Country "is highlighted, and press ⊕.


Parental Control
Country: U.S.A.
Parental Lo Canada
Rating: Child
Change Password
Move Select Exit MENU

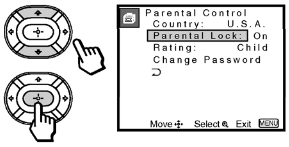
5 Press ↑ or ↓ to select your country (U.S.A. or Canada), and press ⊕.


Parental Control
Country: U.S.A.
Parental Lock: Off
Rating: Child
Change Password
Move Select Exit MENU

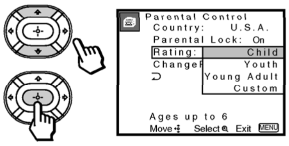
6 Press ↑ or ↓ to select "Parental Lock," and press ⊕.


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: C Off
Change Password
Move Select Exit MENU

7 Press ↑ or ↓ to select "On," and press ⊕.


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: Child
Change Password
Move Select Exit MENU

8 Press ↑ or ↓ to select "Rating," and press ⊕.


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: Child
Change Youth
Young Adult
Custom
Ages up to 6
Move Select Exit MENU

9 Press ↑ or ↓ to select a desired rating ("Child," "Youth" and "Young Adult"), and press ⊕.

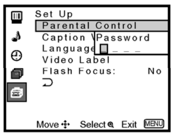
If you want to select the ratings from "Custom," go to step 4 of "Selecting a Custom Rating in U.S.A." on page 38 or "Selecting a Custom Rating in Canada" on page 41, according to your "Country" setting.

10 Press MENU to exit the menu.

To deactivate the Parental Control feature

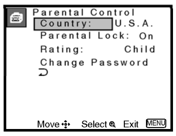
If you set "Parental Lock" in the Parental Control menu to "Off," the Parental Control feature will not work and you can view all TV programs and movies shown on TV.

1 Select "Parental Control" from the Set Up menu. (see page 34)

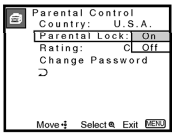

Set Up
Parental Control
Caption Password
Language
Video Label
Flash Focus: No
Move Select Exit MENU

2 Enter your four digit password using the 0-9 buttons.

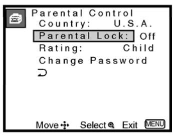
The Parental Control menu appears.


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: Child
Change Password
Move Select Exit MENU

3 Press ↑ or ↓ to select "Parental Lock," and press ⊕.


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: C Off
Change Password
Move Select Exit MENU

4 Press ↑ or ↓ to select "Off," and press ⊕.


Parental Control
Country: U.S.A.
Parental Lock: Off
Rating: Child
Change Password
Move Select Exit MENU

5 Press MENU to exit the menu.

Adjusting Your SET UP (menus) (continued)

To unlock the Parental Control feature temporarily

When you select a Parental Control program, no sound or picture except for a channel number will appear. The 🔒 indicator is displayed. To view the program, follow the steps below.

1 Press ENTER to display the "Password" screen.

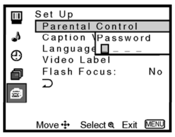
2 Enter your password using the 0–9 buttons. Parental Control will be canceled ("Parental Lock" set to "Off") until you turn your projection TV off.

Selecting a Custom Rating in U.S.A.

If you want to select the ratings to be blocked from "Custom" once you have activated the Parental Control feature (page 37), follow the procedure below.

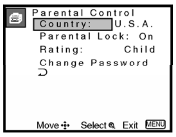
For a detailed description of each rating, see "What the Ratings Mean" on pages 43 to 45.

1 Select "Parental Control" from the Set Up menu. (see page 34)

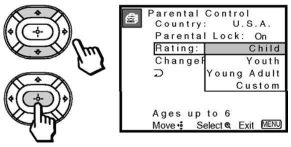

Set Up
Parental Control
Caption Password
Language
Video Label
Flash Focus: No
Move Select Exit MENU

2 Enter your four digit password using the 0–9 buttons.

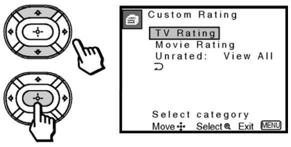
The Parental Control menu appears. Make sure that "Country" is set to "U.S.A."


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: Child
Change Password
Move Select Exit MENU

3 Press ↑ or ↓ to select "Rating," and press ⊕.

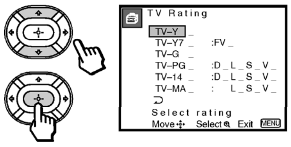

Parental Control
Country: U.S.A.
Parental Lock: On
Rating: Child
Change Youth
Young Adult
Custom
Ages up to 6
Move Select Exit MENU

4 Press ↑ or ↓ to select "Custom," and press ⊕.

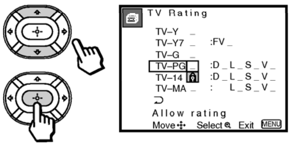

Custom Rating
TV Rating
Movie Rating
Unrated: View All
Select category
Move Select Exit MENU

First, select a TV rating.

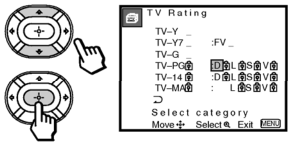
5 Press ↑ or ↓ to select "TV Rating," and press ⊕.


TV Rating
TV–Y
TV–Y7 :FV
TV–G
TV–PG :D L S V
TV–14 :D L S V
TV–MA : L S V
Select rating
Move Select Exit MENU

6 Press ↑ or ↓ to select the TV rating to be blocked, and press ⊕.


TV Rating
TV–Y
TV–Y7 :FV
TV–G
TV–PG :D L S V
TV–14 :D L S V
TV–MA : L S V
Allow rating
Move Select Exit MENU

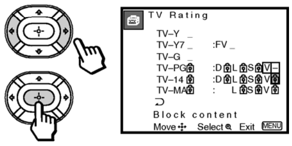
7 Press ↑ or ↓ to select "🔒," and press ⊕. The 🔒 indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.


TV Rating
TV–Y
TV–Y7 :FV
TV–G
TV–PG🔒 :D🔒L🔒S🔒V🔒
TV–14🔒 :D🔒L🔒S🔒V🔒
TV–MA🔒 : L🔒S🔒V🔒
Select category
Move Select Exit MENU

Some ratings have additional content ratings called "extenders." The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. For more details of extenders, see page 45.

All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

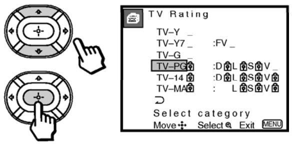
8 Press ← or → to select the extender to be viewed, and press ⊕.


TV Rating
TV–Y
TV–Y7 :FV
TV–G
TV–PG🔒 :D🔒L🔒S🔒V–
TV–14🔒 :D🔒L🔒S🔒V🔒
TV–MA🔒 : L🔒S🔒V🔒
Block content
Move Select Exit MENU

9 Press ↑ or ↓ to select "–," and press ⊕.

"–" appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you select "🔒," 🔒 is displayed to show that the programs that match the extender will be blocked again.

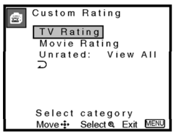

TV Rating
TV–Y
TV–Y7 :FV
TV–G
TV–PG🔒 :D🔒L🔒S🔒V
TV–14🔒 :D🔒L🔒S🔒V🔒
TV–MA🔒 : L🔒S🔒V🔒
Select category
Move Select Exit MENU

(continued)

10 Repeat steps 8 and 9 for other extenders.

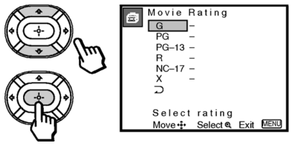
All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

11 After setting of the TV rating is complete, press ↑ or ↓ to select "↩," and press ⊕.

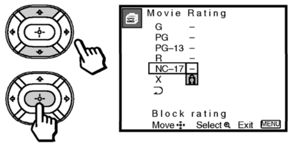

Custom Rating
TV Rating
Movie Rating
Unrated: View All
Select category
Move Select Exit MENU

Second, select a movie rating.

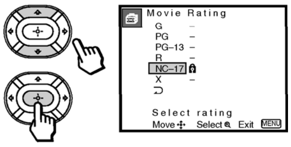
12 Press ↑ or ↓ to select "Movie Rating," and press ⊕.


Movie Rating
G –
PG –
PG–13 –
R –
NC–17 –
X –
Select rating
Move Select Exit MENU

13 Press ↑ or ↓ to select the movie rating to be blocked, and press ⊕.


Movie Rating
G –
PG –
PG–13 –
R –
NC–17 –
X 🔒
Block rating
Move Select Exit MENU

14 Press ↑ or ↓ to select "🔒," and press ⊕. The 🔒 indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.


Movie Rating
G –
PG –
PG–13 –
R –
NC–17 🔒
X –
Select rating
Move Select Exit MENU

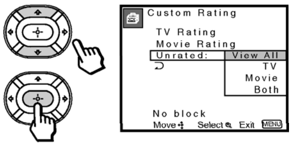
15 Press MENU to exit the menu.

To block TV programs and/or movies for which a rating signal is not given (NR and N/A)

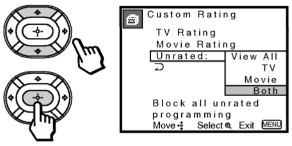
For a description of the NR and N/A ratings, see page 44.

1 Perform steps 1–4 of "Selecting a Custom Rating in U.S.A." on page 38.

2 Press ↑ or ↓ to select "Unrated," and press ⊕.


Custom Rating
TV Rating
Movie Rating
Unrated: View All
TV
Movie
Both
No block
Move Select Exit MENU

3 Press ↑ or ↓ to select the type of programs to be blocked, and press ⊕.


Custom Rating
TV Rating
Movie Rating
Unrated:
View All
TV
Movie
Both
Block all unrated programming
Move Select Exit MENU

To block ...	***Select ...***
No program (to view any unrated TV program and movie)	View All
Unrated TV programs	TV
Unrated movies	Movie
Unrated TV programs and movies	Both

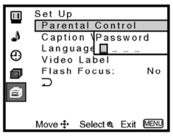
4 Press MENU to exit the menu.

Selecting a Custom Rating in Canada

If you want to select the ratings to be blocked from "Custom" once you have activated the Parental Control feature (page 37), follow the procedure below.

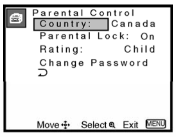
For a detailed description of each rating, see "What the Ratings Mean" on pages 45 and 46.

1 Select "Parental Control" from the Set Up menu. (see page 34)

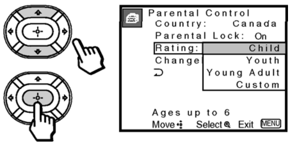

Set Up
Parental Control
Caption
Password
Language
Video Label
Flash Focus: No
Move Select Exit MENU

2 Enter your four digit password using the 0–9 buttons.

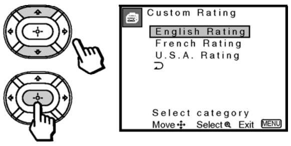
The Parental Control menu appears. Make sure that "Country" is set to "Canada."


Parental Control
Country: Canada
Parental Lock: On
Rating: Child
Change Password
Move Select Exit MENU

3 Press ↑ or ↓ to select "Rating," and press ⊕.


Parental Control
Country: Canada
Parental Lock: On
Rating: Child
Change
Youth
Young Adult
Custom
Ages up to 6
Move Select Exit MENU

4 Press ↑ or ↓ to select "Custom," and press ⊕.

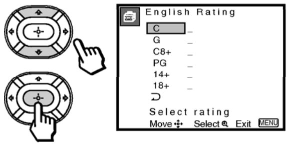

Custom Rating
English Rating
French Rating
U.S.A. Rating
Select category
Move Select Exit MENU

(continued)

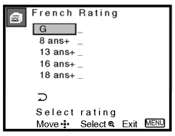
5 Press ↑ or ↓ to select the rating you want to block, and press ⊕.

The selected rating appears.

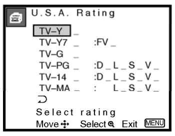
Canadian English Rating


English Rating
C
G
C8+
PG
14+
18+
Select rating
Move Select Exit MENU

Canadian French Rating

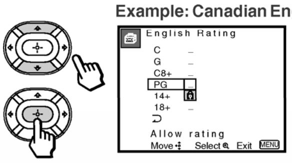

French Rating
G
8 ans+
13 ans+
16 ans+
18 ans+
Select rating
Move Select Exit MENU

U.S. TV Rating

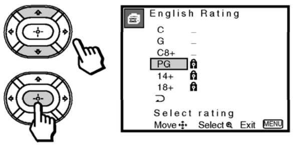

U.S.A. Rating
TV–Y
TV–Y7 :FV
TV–G
TV–PG :D L S V
TV–14 :D L S V
TV–MA : L S V
Select rating
Move Select Exit MENU

6 Press ↑ or ↓ to select the TV rating to be blocked, and press ⊕.

Example: Canadian English Rating


English Rating
C
G
C8+
PG
14+
18+
Allow rating
Move Select Exit MENU

7 Press ↑ or ↓ to select "🔒," and press ⊕. The 🔒 indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.


English Rating
C
G
C8+
PG
14+
18+
Select rating
Move Select Exit MENU

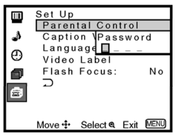
Some U.S. TV ratings have additional content ratings called "extenders," such as D, FV, L, S and V. By setting the extenders, see steps 7 to 10 of "Selecting a Custom Rating in U.S.A." on pages 39 and 40. For more details of extenders, see page 45.

All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

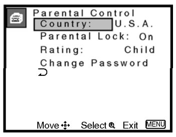
8 Press MENU to exit the menu.

Changing the Password

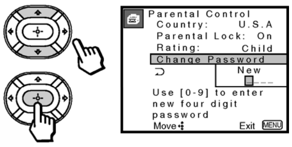
1 Select "Parental Control" from the Set Up menu. (see page 34)


Set Up
Parental Control
Caption
Password
Language
Video Label
Flash Focus: No
Move Select Exit MENU

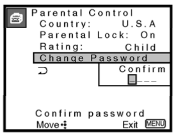
2 Enter your four digit password using the 0–9 buttons.
The Parental Control menu appears.


Parental Control
Country: U.S.A.
Parental Lock: On
Rating: Child
Change Password
Move Select Exit MENU

3 Press ↑ or ↓ to select "Change Password," and press ⊕.


Parental Control
Country: U.S.A
Parental Lock: On
Rating: Child
Change Password
New
Use [0-9] to enter new four digit password
Move Exit MENU

4 Enter a new four digit password using the 0–9 buttons.



Country: U.S.A
Parental Lock: On
Rating: Child

Confirm password

5 Enter the password set in step 4 again to confirm.

If you entered it incorrectly, “Password incorrect” appears.

Re-enter the correct password.

6 Press MENU to exit the menu.

If you have forgotten your password

In step 2 of “Changing the Password” on page 42, enter the master password “4357” (corresponding to “HELP” on a phone number pad). You can then store a new password.

Notes:

- If you entered “4357” as your password the first time, you cannot store a new password. (see step 2 of “Activating the Parental Control Feature” on page 36)
- When you select a Parental Control program and the 🔒 indicator is displayed on the screen, you cannot view that program even if you enter “4357.” (see “To unlock the Parental Control feature temporarily” on page 38)

What the Ratings Mean

Ratings in U.S.A.

Sony’s predetermined ratings

These are original ratings that Sony predetermined according to the viewer’s age. Each rating allows you to view the certain programs, as follows.

See pages 44 and 45 for a description of each rating.

Child: Suitable for children under the age of 6.
Viewable U.S. movie ratings: G, NR, and N/A
Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR

Youth: Suitable for children aged 7 and older.
Viewable U.S. movie ratings: G, PG, NR, and N/A
Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR

Young Adult: Suitable for children aged 13 and older.
Viewable U.S. movie ratings: G, PG, PG-13, NR, and N/A
Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

(continued)

U.S. movie ratings

U.S. movie ratings are for movies (including those shown on TV) rated according to the Motion Picture Association of America (MPAA) Guidelines.

G (General Audiences—All Ages Admitted): In G-rated films no strong words are used, the violence is at a minimum, nudity and sex scenes are not present, nor is there any drug use.

PG (Parental Guidance Suggested. Some Material May Not Be Suitable For Children): This is a film which may need to be monitored first by parents.

PG-13 (Parents Strongly Cautioned. Some Material May Be Inappropriate For Children Under 13): Parents are alerted to be very careful about the attendance of their under-teenage children when viewing.

R (Restricted, Under 17 Require Accompanying Parent Or Adult Guardian): This film includes hard language, tough violence, nudity, drug abuse or other elements of concern.

NC-17 or X (No One 17 Or Under Admitted.): This is a film that most parents would consider not suitable for children aged 17 and under. There may be violence, sex, abberrational behavior, drug abuse or other elements of concern.

NR (Not Rated): This is a film that a producer has not rated, intending to have his film widely released.

N/A (Not Applicable): This is a film that a producer considers outside the scope of the MPAA ratings.

Note:

- NR and N/A ratings are shown together as “Unrated” in the menu.

U.S. TV ratings

U.S. TV ratings are for TV programs rated according to the U.S. Television Parental Guidelines.

TV-Y (All Children): This program is designed for young children aged 2–6 and is appropriate for all children.

TV-Y7 (Directed to Older Children): This program is designed for children aged 7 and above. Themes and elements in this program may include mild fantasy violence or slapstick violence, or may frighten children under the age of 7.

TV-G (General Audience): Most parents would find this program suitable for all ages. It contains little or no violence, no strong language and little or no sexual dialog or situations.

TV-PG (Parental Guidance Suggested): This program contains some material that parents may find unsuitable for younger children.

TV-14 (Parents Strongly Cautioned): This program contains some material that many parents would find unsuitable for children under the age of 14.

TV-MA (Mature Audience Only): This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under the age of 17.

TV-NR (Not Rated/Unrated): This is a program broadcast without any rating, such as news, news flashes or sports.

Note:

The TV-NR rating is shown as "Unrated" in the menu.

About the extenders of U.S. TV ratings

TV-Y7, TV-PG, TV-14 and TV-MA ratings have additional content ratings called "extenders" to define additional viewing limits. The extenders are defined as follows:

D (sexually suggestive Dialog): Programs containing suggestive dialog, or sexual innuendo

FV (Fantasy Violence): Programs containing cartoon violence occurring in TV-Y7 programs only

L (coarse Language): Programs containing coarse language

S (Sexual situations): Programs containing sexual content

V (Violence): Programs containing violence There may be some profanity, violence or brief nudity in these programs.

Ratings in Canada

Sony's predetermined ratings

These are original ratings that Sony predetermined according to the viewer's age. Each rating allows you to view the certain programs, as follows.

See the right column and page 46 for a description of each rating.

Child: Suitable for children under the age of 7.
Viewable Canadian English Language ratings: C and G
Viewable Canadian French Language ratings: G
Viewable U.S. TV ratings: TV-Y, TV-G, and TV-NR

Youth: Suitable for children aged 8 and older.
Viewable Canadian English Language ratings: C, G, C8+ and PG
Viewable Canadian French Language ratings: G and 8 ans+
Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, and TV-NR

Young Adult: Suitable for children aged 14 and older.
Viewable Canadian English Language ratings: C, G, C8+, PG and 14+
Viewable Canadian French Language ratings: G, 8 ans+, 13 ans+
Viewable U.S. TV ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-NR

Canadian English Language ratings

The Canadian English Language Ratings are for TV programs in English broadcast in Canada.

C (Programming intended for children under age 8): There will be no realistic scenes of violence or no offensive language, nudity or sexual content. Careful attention is paid to themes, which could threaten children's sense of security and well-being.

G (General Audience): Will contain very little violence, either physical or verbal or emotional. There may by some inoffensive slang, no profanity and no nudity.

(continued)

C8+ (Programming generally considered acceptable for children 8 years and over to watch on their own): Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. There will be no profanity, nudity or sexual content.

PG (Parental Guidance): Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children aged 8 - 13.

14+ (Programming contains themes or content which may not be suitable for viewers under the age of 14): Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.

18+ (Adult): May contain violence integral to the development of the plot, character or theme, intended for adult audiences. May contain graphic language and explicit portrayals of nudity and/or sex.

E (Exempt): Exempt programming includes: news, sports documentaries and other information programming: talk shows, music videos, and variety programming.

Note:

The E (Exempt) rating is not shown in the menu.

Canadian French Language ratings

The Canadian French Language Ratings are for TV programs in French broadcast in Canada.

G (General): Programming intended for audience of all ages. Contains no violence, or the violence it contains is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.

8 ans+ (8+ General - Not recommended for young children): Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is recommended for young children (under the age of 8).

13 ans+ (Programming may not suitable for children under the age of 13): Viewing with an adult is strongly recommended for children under 13.

16 ans+ (Programming is not suitable for children under the age of 16): Contains frequent scenes of violence or intense violence.

18 ans+ (Programming restricted to adults): Contains constant violence or scenes of extreme violence.

E (Exempt): Exempt programming.

Note:

The E (Exempt) rating is not shown in the menu.

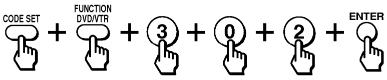
Operating Video Equipment

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

Press CODE SET, DVD/VTR (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:



If the remote control doesn't work

- See the tips on page 49.

VCR manufacturer code numbers

Manufacturer	Code
Sony (VHS VCR)	301
Sony (8mm VCR)	302
Sony (Beta, ED Beta, VCRs)	303
Aiwa	338
Admiral (M. Ward)	327
Audio Dynamic	314, 337
Bell & Howell (M. Ward)	330
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	340, 339, 322
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 329, 312, 313, 310
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Signature 2000 (M. Ward)	338, 327
Sylvania	308, 309, 338, 310
Symphonic	338
SV2000	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknica	338
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zenith	331

Operating Video Equipment (continued)

MDP manufacturer code numbers

Manufacturer	Code
Sony	701
Panasonic	704, 710
Mistubishi	702

DVD Player manufacturer code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Tips 💡

- *In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.*
- *When you remove the batteries, the code number may revert to the factory setting.*

To operate video equipment

1 Press DVD/VTR (FUNCTION).

2 Use the VCR/DVD/MDP operation buttons indicated in the following tables.

Operating a VCR using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To select a channel	Press the 0 – 9 buttons.
To change channels	Press CH +/–.
To record	Press ▶ while pressing ●.
To play	Press ▶.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press ❚❚. Press again to resume normal playback.
To search the picture forward or backward	Press ▶▶ or ◀◀ during playback. Release to resume normal playback.
To change input mode	Press TV/VTR.

Operating an MDP using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press ▶.
To stop	Press ■.
To pause	Press ❚❚. Press again to resume normal playback.
To search the picture forward or backward	Press ▶▶ or ◀◀ during playback. Release to resume normal playback.
To search a chapter forward or backward	Press CH +/–.

Operating a DVD Player using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press ▶.
To stop	Press ■.
To pause	Press ❚❚. Press again to resume normal playback.
To step through different tracks of an audio disc	Press ▶▶ to step forward or ◀◀ to step backward.
To step through different chapters of a video disc	Press CH + to step forward or CH – to step backward.
To select tracks directly	Press 0-9 buttons.
To display the menu (Set up)	Press MENU.

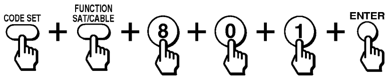
Operating a Cable Box or Satellite Receiver (SAT)

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or satellite receiver.

Press CODE SET, SAT/CABLE (FUNCTION), and the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony satellite receiver:



Manufacturer code numbers (cable box)

Manufacturer	Code
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G.I	201, 202, 203, 204, 205, 222, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (satellite receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
General Electric	802, 808
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802
Toshiba	806, 807

To operate the cable box or satellite receiver (SAT)

1 Press SAT/CABLE (POWER) [Green Button] to turn on/off the cable box or satellite receiver.

2 Press SAT/CABLE (FUNCTION).

3 For other operations, refer to the operating instructions that come with the equipment.
The GUIDE and INDEX (blue-labeled) buttons can be used only with a satellite receiver.

If the remote control doesn't work

- Try repeating the set up procedures using the other codes listed for your equipment.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

Tips

- *If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.*
- *If you enter a new code number, the code number you previously entered at that setting is erased.*
- *In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.*
- *Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.*

Troubleshooting

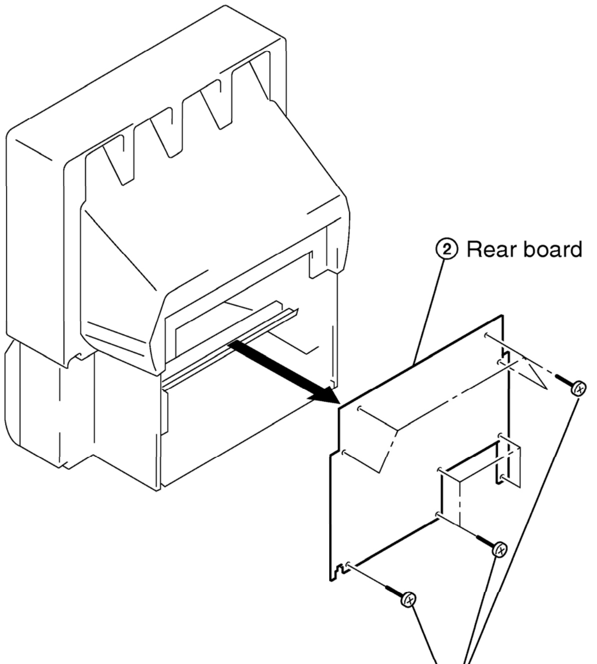
If, after reading the following instructions, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).
Customers in the continental United States contact the Direct Response Center at: 1-800-222-SONY (7669)
Customers in Canada contact the Customer Relations Center at: (416) 499-SONY (7669)

The picture turns off and the TIMER/STAND BY indicator on the front panel flashes (self-diagnosis function)	• The projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the TIMER/STAND BY indicator on the front panel will flash repeatedly. Counting the number of flashes helps you inform qualified Sony personnel of the projection TV's condition. **1** Count how many times the TIMER/STAND BY indicator flashes in total. It flashes twice at 3 seconds' intervals. If, for example, the indicator flashes twice, stops flashing for 3 seconds, and flashes twice again, that counts as twice. **2** Press POWER on the projection TV to turn it off, then inform qualified Sony personnel or the above Direct Response Center of the number of flashes.
No picture (screen not lit), no sound	• Make sure the power cord is plugged in. • Operate with the buttons on both the projection TV and the remote control. • Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2, or 3. • Try another channel. *It could be station trouble.* • Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 19) • The Parental Control feature is activated. (see "To deactivate the Parental Control feature" on page 37)
Remote control does not operate	• Batteries could be weak. Replace the batteries. • Press TV (FUNCTION) when operating your projection TV. • Make sure the projection TV's power cord is connected securely to the wall outlet. • Locate the projection TV at least 3-4 feet away from fluorescent lights. • Check the polarity of the batteries.
Dark, poor or no picture (screen lit), good sound	• Adjust "Picture" in the Video menu. (see "Picture Adjustment" on page 26) • Adjust "Brightness" in the Video menu. (see "Picture Adjustment" on page 26) • Check antenna/cable connections. • Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 19) • Adjust the convergence again using the FLASH FOCUS button. (see "Adjusting the Convergence Automatically (FLASH FOCUS)" on page 19)
Good picture, no sound	• Press MUTING so that "Muting" disappears from the screen. (see "MUTING" on page 20) • Check the MTS/SAP setting in the Audio menu. (see "MTS/SAP" on page 27) • Make sure "Speaker" is set to "On" in the Audio menu. (see "Speaker" on page 28) • Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 19)

Cannot receive upper channels (UHF) when using an antenna	• Make sure “Cable” is “Off” in the Channel Set Up menu. (see “Cable” on page 31) • Use “Auto Program” to add receivable channels that are not presently in the TV’s memory. (see “Auto Program” on page 31)
No color	• Adjust “Color” in the Video menu. (see “Picture Adjustment” on page 26) • Black and white programs cannot be seen in color. • Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see “To perform AUTO SET UP again” on page 19)
Only snow and noise appear on the screen	• Check the “Cable” setting in the Channel Set Up menu. (see “Cable” on page 31) • Check the antenna/cable connections. • Make sure the channel is broadcasting programs. • Press ANT to change the input mode. (see “ANT” on page 22)
Dotted lines or stripes	• Adjust the antenna. • Keep the projection TV away from noise sources such as cars, neon signs or hair-dryers.
TV is fixed to one channel	• Use “Auto Program” to add receivable channels that are not presently in TV’s memory. (see “Auto Program” on page 31)
Double images or ghosts	• Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).
Cannot operate the menu	• If the item you want to choose appears in gray, you cannot select it. • Press the projection TV’s power button off and on again.
Cannot receive any channels when using cable TV	• Make sure “Cable” is “On” in the Channel Set Up menu. (see “Cable” on page 31) • Use “Auto Program” to add receivable channels that are not presently in the TV’s memory. (see “Auto Program” on page 31)
Cannot gain enough volume when using a cable box	• Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV’s volume.
Favorite Channel does not display your choices	• Verify that “Favorite Channel” is set to “Manual” in the Channel Set Up menu. (see “Setting Favorite Channel manually” on page 32)
Some video sources do not appear when you press TV/VIDEO	• Ensure that “Video Label” is not set to “Skip.” (see “Video Label” on page 35)
Recording through MONITOR OUT does not function properly when recording in PIP mode	• MONITOR OUT will not record both images in PIP. Only the main picture will be recorded. • If you are recording the main picture and you switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.
Cannot play shooting games	• Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual supplied with the video game software.

SECTION 2
DISASSEMBLY

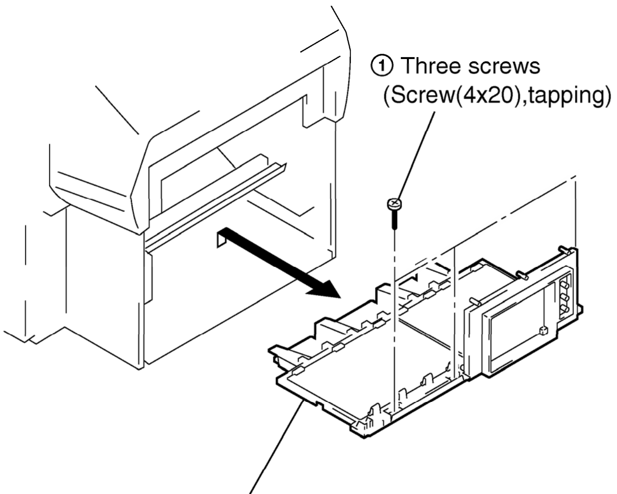
2-1. REAR BOARD REMOVAL



② Rear board

① Nine screws (Except KP-43T75)
Eight screws (KP-43T75)
(Screw(4x20), tapping)

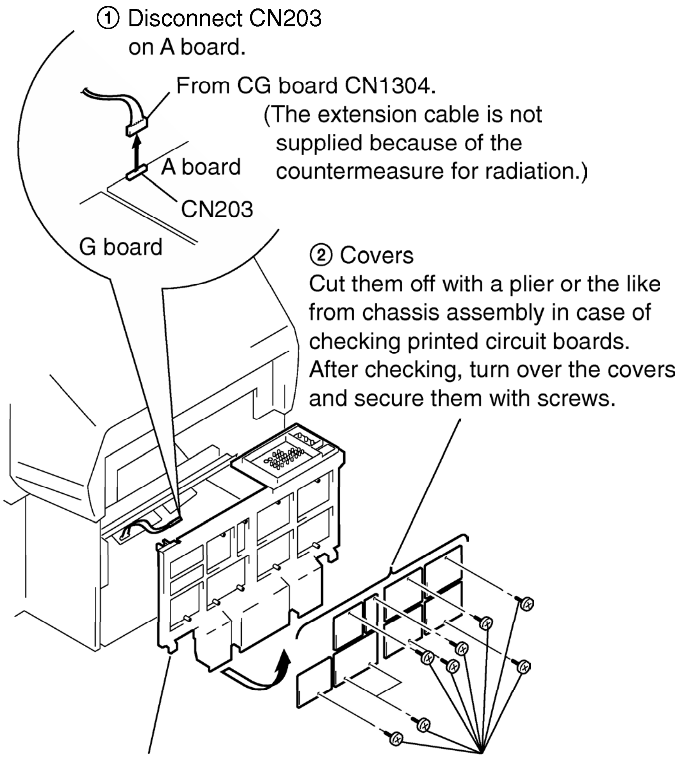
2-2. CHASSIS ASSY REMOVAL



① Three screws
(Screw(4x20),tapping)

② Chassis assy

2-3. SERVICE POSITION



① Disconnect CN203
on A board.

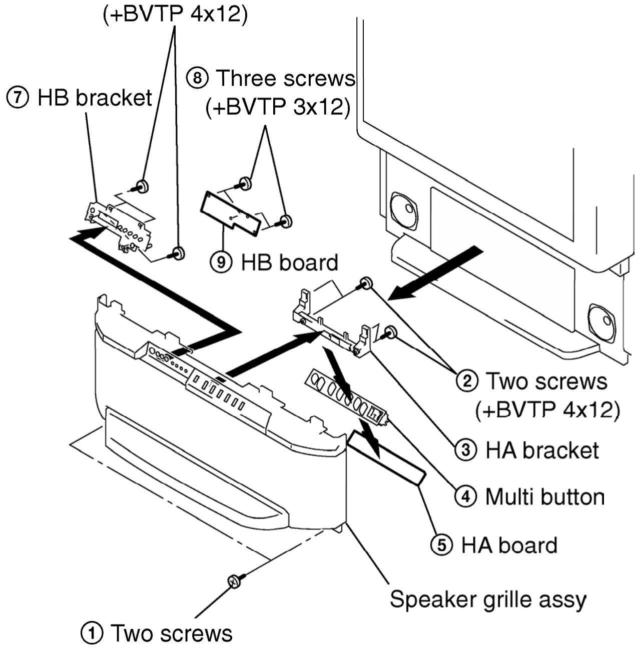
From CG board CN1304.
(The extension cable is not
supplied because of the
countermeasure for radiation.)

② Covers
Cut them off with a plier or the like
from chassis assembly in case of
checking printed circuit boards.
After checking, turn over the covers
and secure them with screws.

Chassis assembly

Screws
(+BVTP3x12)

2-4. HA BOARD AND HB BOARD REMOVAL
(EXCEPT KP-43T75)



⑥ Four screws
(+BVTP 4x12)

⑦ HB bracket

⑧ Three screws
(+BVTP 3x12)

⑨ HB board

② Two screws
(+BVTP 4x12)

③ HA bracket

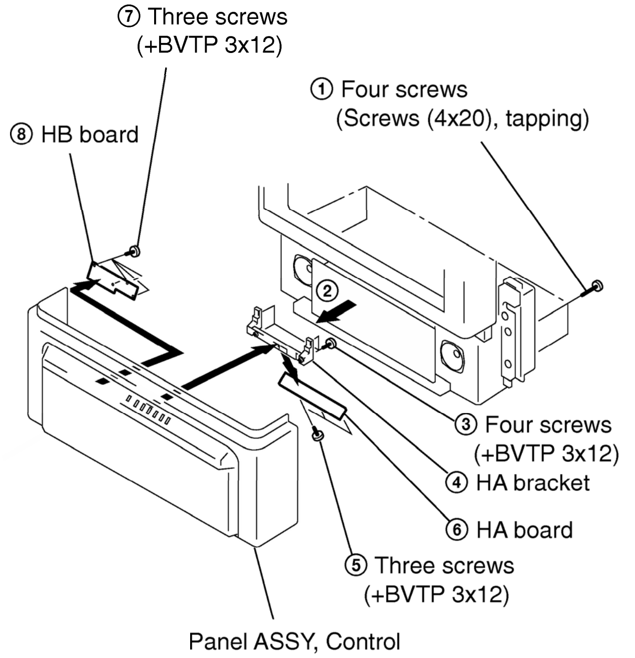
④ Multi button

⑤ HA board

Speaker grille assy

① Two screws
(Screws (4x20), tapping)

2-5. HA BOARD AND HB BOARD REMOVAL (KP-43T75)



⑦ Three screws (+BVTP 3x12)

⑧ HB board

① Four screws (Screws (4x20), tapping)

③ Four screws (+BVTP 3x12)

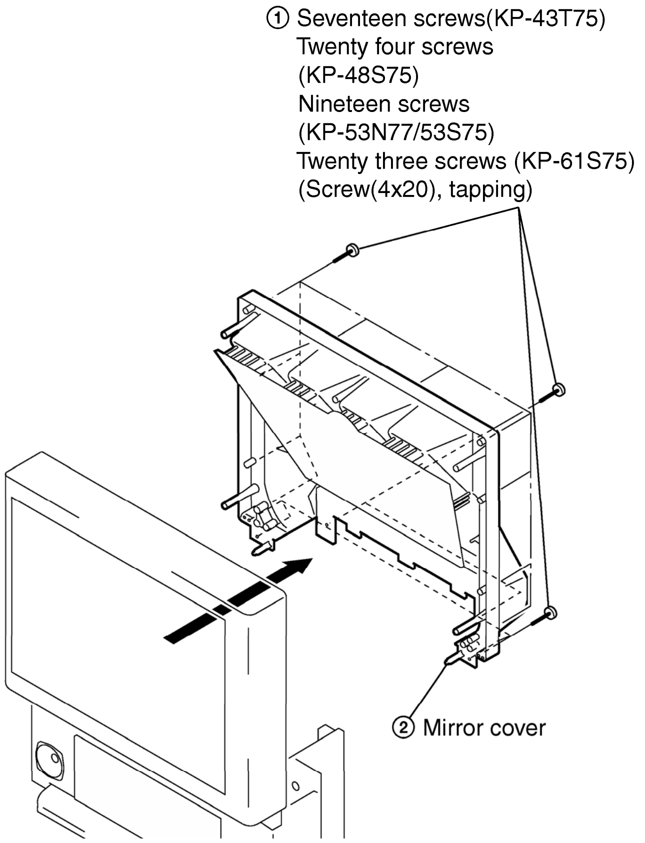
④ HA bracket

⑥ HA board

⑤ Three screws (+BVTP 3x12)

Panel ASSY, Control

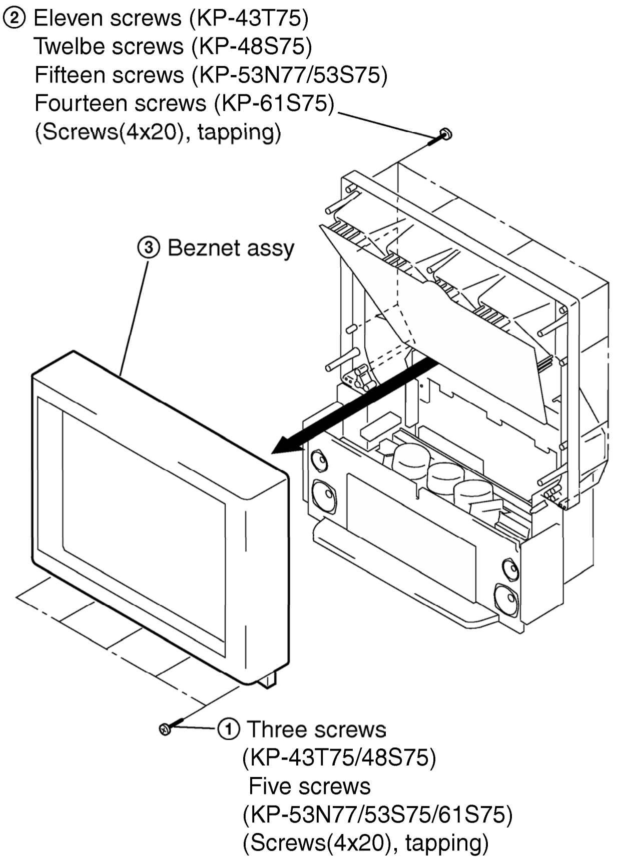
2-6. MIRROR COVER REMOVAL



① Seventeen screws(KP-43T75)
Twenty four screws (KP-48S75)
Nineteen screws (KP-53N77/53S75)
Twenty three screws (KP-61S75)
(Screw(4x20), tapping)

② Mirror cover

2-7. BEZNET ASSY REMOVAL

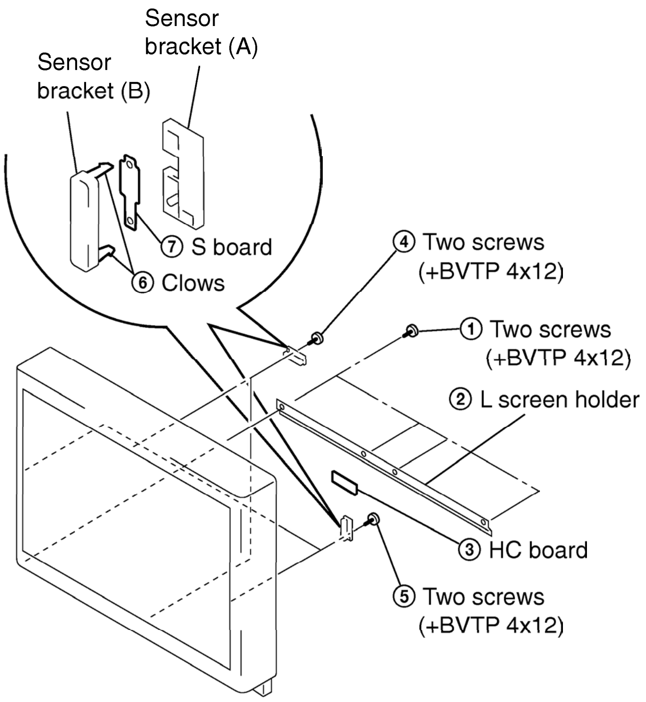


② Eleven screws (KP-43T75)
Twelbe screws (KP-48S75)
Fifteen screws (KP-53N77/53S75)
Fourteen screws (KP-61S75)
(Screws(4x20), tapping)

③ Beznet assy

① Three screws (KP-43T75/48S75)
Five screws (KP-53N77/53S75/61S75)
(Screws(4x20), tapping)

2-8. HC BOARD AND S BOARD REMOVAL



Sensor bracket (A)

Sensor bracket (B)

⑦ S board

⑥ Clows

④ Two screws (+BVTP 4x12)

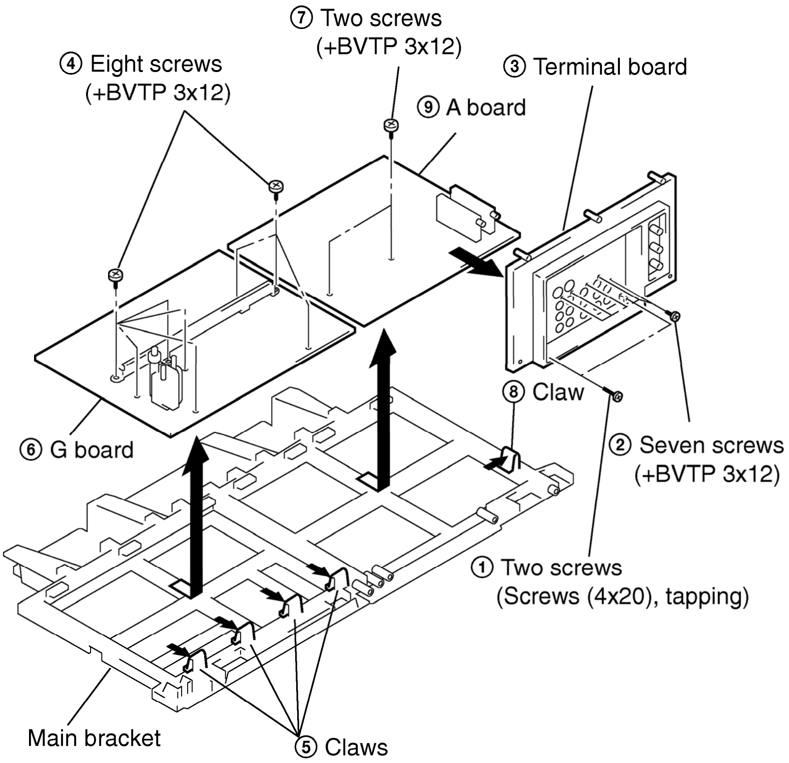
① Two screws (+BVTP 4x12)

② L screen holder

③ HC board

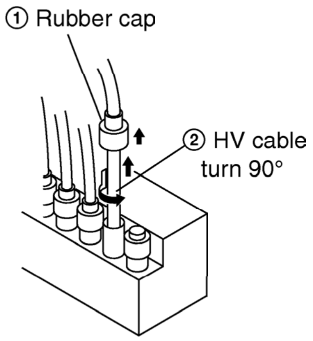
⑤ Two screws (+BVTP 4x12)

2-9. A BOARD AND G BOARD REMOVAL

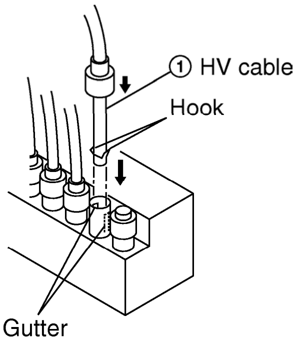

⑦ Two screws (+BVTP 3x12)
④ Eight screws (+BVTP 3x12)
③ Terminal board
⑨ A board
⑧ Claw
⑥ G board
② Seven screws (+BVTP 3x12)
① Two screws (Screws (4x20), tapping)
Main bracket
⑤ Claws

2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Removal

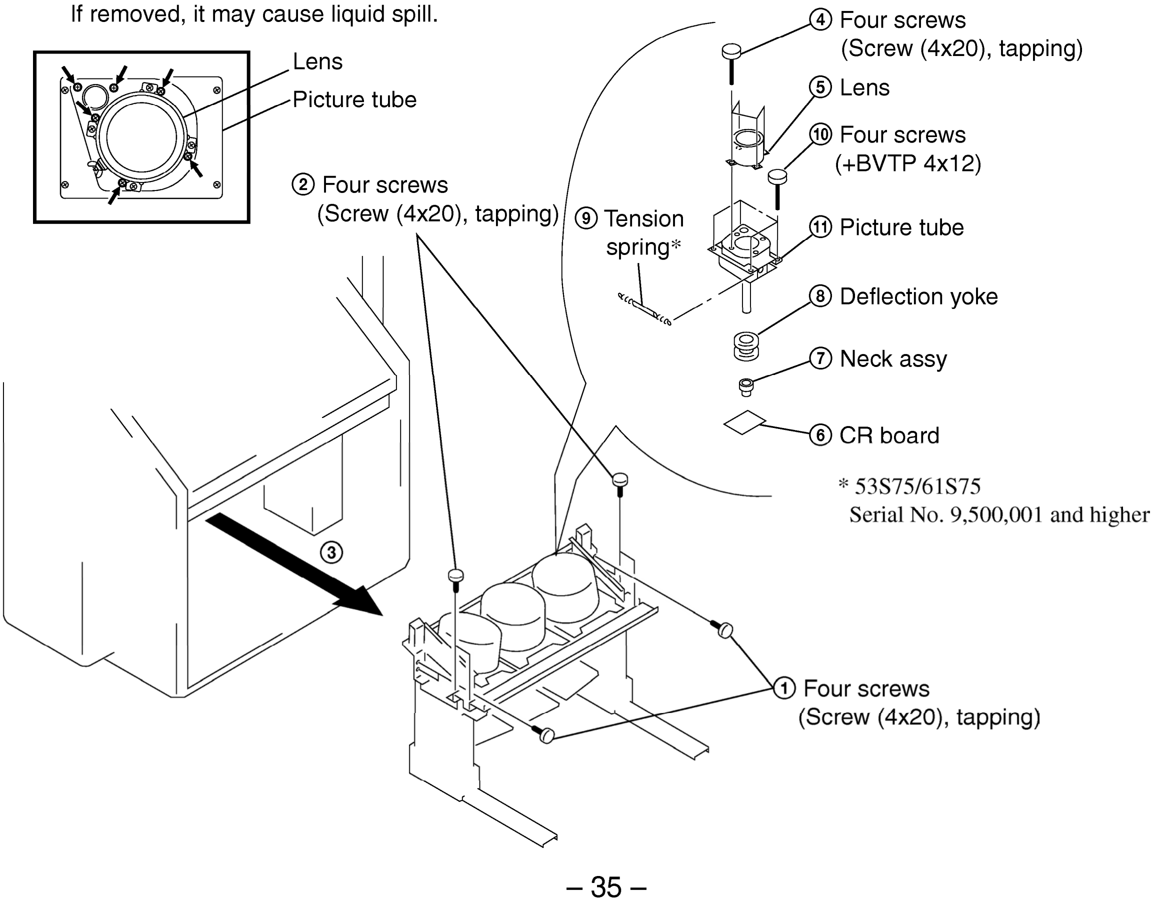

① Rubber cap
② HV cable turn 90°

(2) Installation


① HV cable
Hook
Gutter

2-10. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited. If removed, it may cause liquid spill.


Lens
Picture tube
② Four screws (Screw (4x20), tapping)
④ Four screws (Screw (4x20), tapping)
⑤ Lens
⑩ Four screws (+BVTP 4x12)
⑨ Tension spring*
⑪ Picture tube
⑧ Deflection yoke
⑦ Neck assy
⑥ CR board
③
① Four screws (Screw (4x20), tapping)

* 53S75/61S75
Serial No. 9,500,001 and higher

SECTION 3
SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (COARSE ADJUSTMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

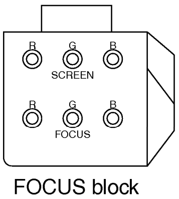


Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

Fine Mode is recommended to set screen controls to their optimal condition. It is necessary to build the simple jig, illustrated below, using 3-watt resistors. Please note, that if the proper voltage is not obtained with their listed values, resistors, then please increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO1 mode without signals.
2. Connect G2 JIG.
3. SW on JIG.
4. Connect an oscilloscope to the TP701(KR), TP732(KG) and TP761(KB) of CR board, CG board and CB board.
5. Adjust R, G and B screen voltage to 170-173V with screen VR on the Focus block.

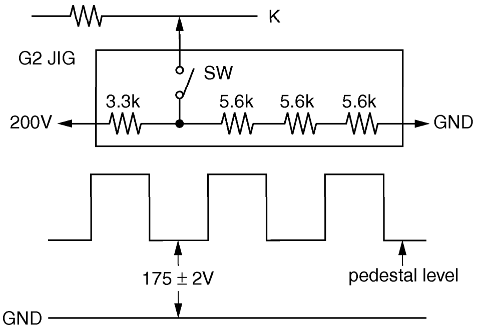


Fig. 3-2

3-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in service mode.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red is aligned in the mode Cover the both green and blue picture lenses with the lens caps and the tilt of the deflection yoke for blue is aligned with in the mode Cover the both green and red picture lenses with the lens caps is aligned the same as was done for green.

Note: Instead of items 3 and 6, you can cut off the unnecessary color beams by controlling the service mode VPNT 28 RON, 29 GON, and 30 BON.

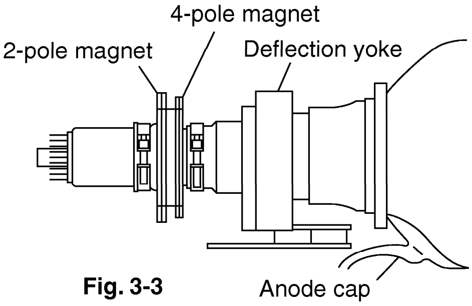


Fig. 3-3

3-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander in the service mode.
For details of the usage of the service mode and the remote commander, please refer the item 3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Set to the service mode.
3. Receive the all-white signal.
4. Cover the both red and blue picture lenses with the lens caps to show only the green color.
5. Set to PJE, and press 6 to display the test signal (crosshatch)" on the screen.
6. Turn the green lens to adjust to the optimum focus point with the test signal.
7. Tighten the lens screw.
8. Cover the both green and blue picture lenses with the lens caps to show only the red color.
9. Set to PJE, and press 6 to display the test signal (crosshatch)" on the screen.
10. Adjust red CRT lens just the same as green.
11. Cover the both green and red picture lenses with the lens caps to show only the blue color.

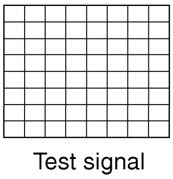


Fig. 3-4

12. Set to PJE, and press 6 to display the test signal (crosshatch)" on the screen.
13. Adjust blue CRT lens just the same as green.
14. After adjusting the items 3-5. Focus VR Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

*: Every time you press 6, the test signal changes to "crosshatch+video signal" - "dots+video signal" - "crosshach(black)" - "dots(black)" - off.

Note: Instead of items 4, 8 and 11, you can cut off the unnecessary color beams by controlling the service mode VPNT 28 RON, 29 GON, and 30 BON.

3-5. FOCUS VR ADJUSTMENT

1. Set to the service mode.
2. Receive the all-white signal.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Set to PJE, and press 6 to display the test signal (crosshatch) on the screen.
5. Turn the green focus VR on the focus block to adjust to the optimum focus point with the test signal.
6. Cover the both green and blue picture lenses with the lens caps to show only the red color.
7. Set to PJE, and press 6 to display the test signal (crosshatch) on the screen.
8. Turn the red focus VR on the focus block to adjust to the optimum focus point with the test signal.
9. Cover the both green and red picture lenses with the lens caps to show only the blue color.
10. Set to PJE, and press 6 to display the test signal (crosshatch) on the screen.
11. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the test signal.
12. After adjusting the items 3-4. Focus Lens Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

Note: Instead of items 3, 6 and 9, you can cut off the unnecessary color beams by controlling the service mode VPNT 28 RON, 29 GON, and 30 BON.

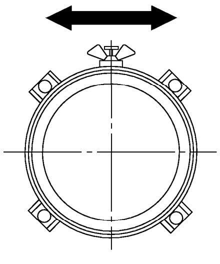


Fig. 3-5

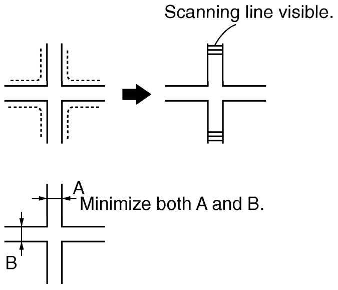


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT (GREEN,RED)

1. Receive the Dot signal.
2. Set in service mode.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Turn the green focus VR on the focus block to the right and set to overfocus to enlarge the spot.
5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red.

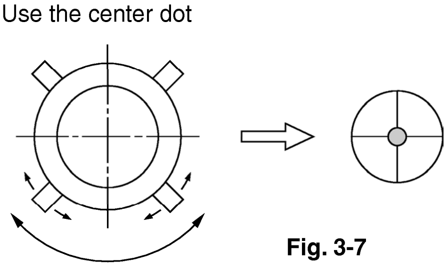


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Set in service mode.
3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
4. Turn the green focus VR on the focus block to the left and set to underfocus to enlarge the spot.
5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle for green and red.
6. Perform the same alignment for blue.

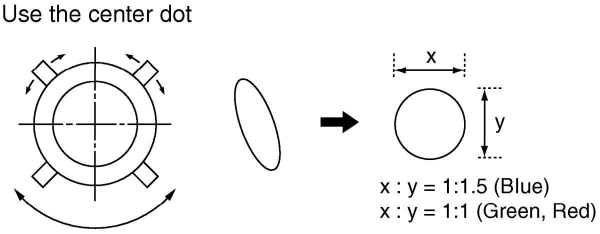


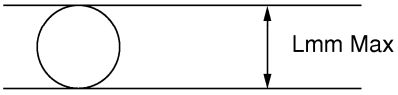
Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (BLUE)

Note: Please adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

1. Select the video menu and set the mode to “VIVID” mode.
2. Set to the service mode.
3. Change TV mode to the video input mode.
4. Set to PJE, and press 6 to display the test signal (dots) on the screen.
5. Turn the blue focus VR on the focus block to adjust to the diameter of the dots as shown in the figure below.

[Focus adjustment point]



Inch	43"	48"	53"	61"
L	6	7	8	9

Fig. 3-9

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y906),all circuit adjustments can be made.

NOTE : Test Equipment Required.

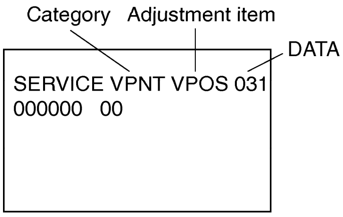
1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

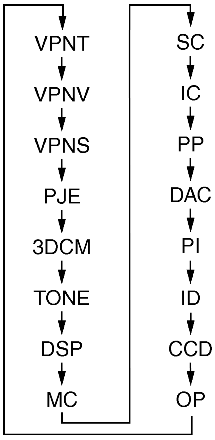
1. Standby mode. (Power off)
2. DISPLAY → 5 → VOL (+) → TV POWER on the Remote Commander. (Press each button within a second.)

SERVICE MODE ADJUSTMENT


Category
Adjustment item
DATA
SERVICE VPNT VPOS 031
000000 00

(SCREEN DISPLAY)

3. The SCREEN displays the item being adjusted.
4. Press 1 or 4 on the Remote Commander to select the adjustment item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. Press 2 or 5 on the Remote Commander to select the category. Every time you press 2(Category up), Service mode changes in the order as shown below.


VPNT
VPNV
VPNS
PJE
3DCM
TONE
DSP
MC
SC
IC
PP
DAC
PI
ID
CCD
OP

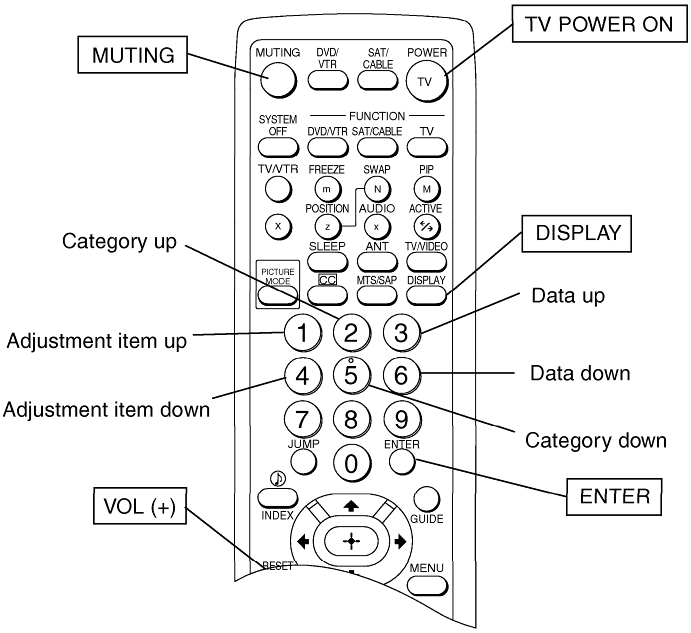
7. If you want to recover the latest values press 0 then ENTER to read the memory.
8. Press MUTING then ENTER to write into memory.
9. Turn power off.

Note: Press 8 then ENTER on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3. ADJUSTING BUTTONS AND INDICATOR


MUTING
TV POWER ON
DISPLAY
Category up
Data up
Adjustment item up
Data down
Adjustment item down
Category down
ENTER
VOL (+)
MUTING
DVD/VTR
SAT/CABLE
POWER
TV
SYSTEM OFF
FUNCTION
DVD/VTR
SAT/CABLE
TV
TV/VTR
FREEZE
SWAP
PIP
POSITION
AUDIO
ACTIVE
SLEEP
ANT
TV/VIDEO
PICTURE MODE
CC
MTS/SAP
DISPLAY
1
2
3
4
5
6
7
8
9
JUMP
0
ENTER
INDEX
GUIDE
RESET
MENU

RM-Y906

Note : When the PJE mode is activated, which displays an internally generated signal, several buttons on the remote commander will have different functions than listed above. Therefore, when in the PJE mode, refer to page 43 for button functions.

4. SERVICE MODE LIST

Note: • ▨ shaded items are fixed. There is no need to change data. Others are different a little in the sets individually. Basically, there is no need to change data, too.

• Usually, there is no need to adjust except for VPNT and PJE. Use data as a reference in case of replacing printed circuit boards or devices.

VPNT (Video Processor NTSC)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	VPOS	0-63	31	V POSITION
1	VSIZ	0-63	31	V SIZE
2	VCOM	0-3	0	V COMP
3	VLIN	0-15	7	V LINEARITY
4	VSCO	0-15	7	V SCURVE CORRECTION
5	HPOS	0-15	7	H POSITION
6	HSIZ	0-63	31	H SIZE
7	PAMP	0-63	31	PIN AMP
8	UPIN	0-15	7	UPPER CORNER PIN DISTORTION
9	LPIN	0-15	7	LOWER CORNER PIN DISTORTION
10	PPHA	0-15	5	PIN PHASE
11	AFC	0-3	2	AFC LOOP GAIN
12	VBOW	0-15	7	V BOW
13	VANG	0-15	7	V ANGLE
14	REF	0-3	3	REFERENCE PULSE POSITION
15	RDRV	0-63	31	RED DRIVE GAIN
16	BDRV	0-63	31	BLUE DRIVE GAIN
17	RCUT	0-15	7	RED CUTOFF
18	BCUT	0-15	7	BLUE CUTOFF
19	SCON	0-15	7	SUB CONTRAST
20	SHUE	0-15	7	SUB HUE
21	SCOL	0-15	7	SUB COLOR
22	CDM2	0,1	0	COUNT DOWN MODE2
23	DPIX	0,1	1	DYNAMIC PICTURE
24	NOTC	0,1	0	Y CHROMA TRAP
25	CROM	0-15	7	CHROMA TRAP F0
26	TOT	0,1	0	CHROMA TOT FILTER
27	SHPF	0-3	3	SHARPNESS F0
28	RON	0,1	1	RED ON
29	GON	0,1	1	GREEN ON
30	BON	0,1	1	BLUE ON
31	DCOL	0,1	1	DYNAMIC COLOR
32	CDMD	0,1	0	V COUNT DOWN
33	LBLK	0-15	13	LEFT-SIDE BLANK WIDTH
34	RBLK	0-15	13	RIGHT-SIDE BLANK WIDTH
35	PREC	0-3	1	PRE OVER LEVEL FOR COMP .V IN
36	PREY	0-3	1	PRE OVER LEVEL FOR Y IN

VPNV (Video Processor NTSC Vivid)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SBRV	0-63	27	SUB BRIGHTNESS FOR VIVID
1	GMMV	0-3	2	GAMMA LEVEL FOR VIVID
2	YDCV	0,1	1	Y-DC TRANSFER RATIO FOR VIVID
3	ABLV	0,1	1	ABL MODE FOR VIVID
4	AXIV	0,1	0	AXIS R-Y,G-Y FOR VIVID

VPNS (Video Processor NTSC Standard)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SBRS	0-63	27	SUB BRIGHTNESS FOR STANDARD
1	GMMS	0-3	2	GAMMA LEVEL FOR STANDARD
2	YDCS	0,1	0	Y-DC TRANSFER RATIO FOR STANDARD
3	ABLS	0,1	1	ABL MODE FOR STANDARD
4	AXIS	0,1	0	AXIS R-Y,G-Y FOR STANDARD

PJE (Projection TV Engine)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	FDIS	0,1	0	SELECT REGI DATA DISPLAY OF FINE ADJ
1	OSDH	1-255	31	PJED SERVICE MENU H POSITION
2	OSDV	1-255	25	PJED SERVICE MENU V POSITION
3	FVST	0-255	25	LINE NUMBER OF FINE ADJUST START
4	V1ST	0-255	0	V1 START DATA
5	V1CU	0-255	62	V1 COUNT UP DATA
6	COHP	0-255	0	H-PHASE OF ROUGH ADJ
7	FIHP	0-255	194	H-PHASE OF FINE ADJ
8	TPHP	0-255	62	H-PHASE OF TEST PATTERN
9	DFHP	0-255	225	H-PHASE OF DYNAMIC FOCUS
10	DFHG	-128-127	-80	H-2 GAIN OF DYNAMIC FOCUS
11	DFVG	-128-127	-15	V-2 GAIN OF DYNAMIC FOCUS
12	PWM 1	0-255	0	PWM 1
13	PWM2	0-255	32	H-PHASE OF AUTO REGI .TEST PATTERN
14	HBLD	0-255	244	H-PHASE OF RETURNED BLUE V LINE
15	HBLW	0-63	23	PULSE WIDTH OF RETURNED BLUE V LINE
16	BLKP	0-255	27	START BLANK PULSE
17	COGV	-128-127	X(*1)	GREEN V CENT OFFSET DATA OF AUTO REGI
18	CORV	-128-127	X(*1)	RED V CENT OFFSET DATA OF AUTO REGI
19	COBV	-128-127	X(*1)	BLUE V CENT OFFSET DATA OF AUTO REGI
20	COGH	-128-127	X(*1)	GREEN H CENT OFFSET DATA OF AUTO REGI
21	CORH	-128-127	X(*1)	RED H CENT OFFSET DATA OF AUTO REGI
22	COBH	-128-127	X(*1)	BLUE H CENT OFFSET DATA OF AUTO REGI
23	SOGV	-128-127	X(*1)	GREEN V SKEW OFFSET DATA OF AUTO REGI
24	SORV	-128-127	X(*1)	RED V SKEW OFFSET DATA OF AUTO REGI
25	SOBV	-128-127	X(*1)	BLUE V SKEW OFFSET DATA OF AUTO REGI
26	SOGH	-128-127	X(*1)	GREEN H SKEW OFFSET DATA OF AUTO REGI
27	SORH	-128-127	X(*1)	RED H SKEW OFFSET DATA OF AUTO REGI
28	SOBH	-128-127	X(*1)	BLUE H SKEW OFFSET DATA OF AUTO REGI
29	ERR	FIXED	0	AUTO REGI ERROR CODE
30	ADTM	0-255	144	TIMING TO GET A/D DATA OF AUTO REGI
31	VUP	1-255	1	AUTO REGI PATTERN UPPER V POSITION
32	VMID	1-255	102	AUTO REGI PATTERN MIDDLE V POSITION
33	VLOW	1-255	212	AUTO REGI PATTERN LOWER V POSITION
34	HPR	1-510	1	AUTO REGI PATTERN H POSITION
GRN	CENT	-512-511	000 / 000	GREEN H/V CENT
	SKEW	-512-511	000 / 000	GREEN H/V SKEW
	SIZE	-512-511	-70/-190	GREEN H/V SIZE
	LIN	-512-511	xxxx / xxxx	GREEN H/V LIN
	KEY	-512-511	xxxx / xxxx	GREEN H/V KEY
	PIN	-512-511	xxxx / 271	GREEN H/V PIN
BLU	CENT	-512-511	000 / 000	BLUE H/V CENT
	SKEW	-512-511	080 / -130	BLUE H/V SKEW
	SIZE	-512-511	-20 / -226	BLUE H/V SIZE
	LIN	-512-511	187 / xxxx	BLUE H/V LIN
	KEY	-512-511	xxxx / -115	BLUE H/V KEY
	PIN	-512-511	xxxx / 198	BLUE H/V PIN
RED	CENT	-512-511	000 / 000	RED H/V CENT
	SKEW	-512-511	080 / -130	RED H/V SKEW
	SIZE	-512-511	-61 / -206	RED H/V SIZE
	LIN	-512-511	195 / xxxx	RED H/V LIN
	KEY	-512-511	xxxx / 124	RED H/V KEY
	PIN	-512-511	xxxx / 250	RED H/V PIN

∗ 1 : Set correctly by the automatic resistration adjustment.

xxxx : Cannot change.

3DCM (3D Comb Filter)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	NRMD	0-3	0	NOISE REDUCER MODE
1	DYCO	0-15	2	ΔY CORING LEVEL SETTING
2	DYGA	0-15	10	ΔY GAIN SETTING
3	DCCO	0-15	5	ΔC CORING LEVEL SETTING
4	DCGA	0-15	5	ΔC GAIN SETTING
5	SELD	0,1	1	SELECT ΔY SIGNAL FILTER
6	D2GA	0-7	4	ΔY/C 2nd GAIN SETTING
7	VTRH	0-3	1	VTR HSYNC HYSTERESIS SETTING
8	VTRR	0-3	1	VTR HSYNC REFERENCE SETTING
9	LDSR	0-3	2	LD SIGNAL REFERENCE
10	VAPG	0-7	5	V APERTURE GAIN
11	VAPI	0-31	11	V APERTURE INVERT POINT
12	YPFT	0-3	0	Y PEAKING FILTER TAP
13	YPFG	0-15	9	Y PEAKING FILTER GAIN
14	V1PS	0-3	2	VERTICAL 1-LINE SELECTOR
15	VEGS	0-3	1	VERTICAL EDGE SELECTOR
16	CC3N	0,1	0	C SIGNAL 3-LINE COM FILTER
17	HDP	0-7	4	HD HORIZONTAL PHASE
18	CDL	0-7	4	C DELAY
19	HSSL	0-15	12	H SYNC SLICE LEVEL
20	VSSL	0-15	8	V SYNC SLICE LEVEL
21	HPLF	0,1	1	H PLL FILTER
22	BPLF	0,1	0	BURST PLL FILTER
23	FSCF	0,1	1	FSC FILTER GAIN
24	PLFG	0,1	1	PLL FILTER GAIN
25	EXAD	0,1	1	EXTERNAL AD IN
26	MSS	0,1	0	FORCED MOTION SIGNAL
27	COUT	0-3	2	C SIGNAL OUTPUT
28	YAPS	0-3	1	Y APERTURE
29	NSDS	0-3	0	NON STD SIGNAL DETECT.
30	CPP	0-3	0	CLAMP PULSE & AD RANGE
31	YHCO	0-3	1	Y HIGH FREQ.SIGNAL CORING
32	YPCO	0,1	0	Y PEAK FILTER CORING OFF
33	KILR	0-15	3	KILLER REFERENCE
34	BGPS	0-15	4	BGP START POSITION
35	BGPW	0-15	10	BGP WIDTH
36	ADCL	0-3	2	AD CLOCK DELAY
37	PWRF	0,1	0	PULSE WIDTH REFERENCE
38	YHCG	0,1	0	Y HIGH FREQ.SIGNAL CORING 1/2 GAIN
39	CKG2	0,1	1	CLOCK GENERATOR TEST BIT
40	CKGE	0,1	0	CLOCK GENERATOR TEST BIT

TONE (Tone Control)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	RBAS	0-63	39	RESET VALUE OF USER BASS DATA
1	RTRE	0-63	35	RESET VALUE OF USER TREBLE DATA
2	BBEH	0-15	-	BBE HIGH FREQUENCY
3	BBEL	0-11	-	BBE LOW FREQUENCY
4	SUFE	7	-	SURROUND EFFECT

DSP (Digital Signal Processor)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	TB0H	0-255	48	TRUSURROUND EFFECT (L+R) COARSE
1	TB0L	0-255	0	TRUSURROUND EFFECT (L+R) FINE
2	TB1H	0-255	64	TRUSURROUND EFFECT (L-R) COARSE
3	TB1L	0-255	0	TRUSURROUND EFFECT (L-R) FINE
4	TB2H	0-255	64	TRUSURROUND EFFECT (C) COARSE
5	TB2L	0-255	0	TRUSURROUND EFFECT (C) FINE
6	TBFH	0-255	165	TRUSURROUND EFFECT (S) COARSE
7	TBFL	0-255	126	TRUSURROUND EFFECT (S) FINE
8	TC0H	0-255	90	TRUSURROUND EFFECT (S) COARSE
9	TC0L	0-255	130	TRUSURROUND EFFECT (S) FINE
10	TC1H	0-255	11	TRUSURROUND EFFECT (L,R) COARSE
11	TC1L	0-255	100	TRUSURROUND EFFECT (L,R) FINE
12	SADH	0-255	64	SRS SPACE LEVEL COARSE
13	SADL	0-255	0	SRS SPACE LEVEL FINE
14	SB0H	0-255	92	SRS CENTER LEVEL COARSE
15	SB0L	0-255	0	SRS CENTER LEVEL FINE

MC (Main Chroma Decoder)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	MYDR	0-31	22	MAIN Y DRIVE
1	MSHU	0-63	31	MAIN SUB HUE
2	MSCL	0-63	31	MAIN SUB COLOR
3	MUPD	0-15	7	MAIN U PEDESTAL OFFSET
4	MVPD	0-15	7	MAIN V PEDESTAL OFFSET
5	MDLY	0-3	0	MAIN Y DELAY
6	MU2P	0-15	7	MAIN U2 PEDESTAL OFFSET
7	MV2P	0-15	7	MAIN V2 PEDESTAL OFFSET
8	MY2D	0-31	19	MAIN Y2 DRIVE
9	MU2D	0-31	11	MAIN U2 DRIVE
10	MV2D	0-31	11	MAIN V2 DRIVE
11	MPRE	0-3	3	MAIN PRE-OVER

SC (Sub Chroma Decoder)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	SYDR	0-31	28	SUB Y DRIVE
1	SSHU	0-63	31	SUB SUB HUE
2	SSCL	0-63	31	SUB SUB COLOR
3	SUPD	0-15	7	SUB U PEDESTAL OFFSET
4	SVPD	0-15	7	SUB V PEDESTAL OFFSET
5	SDLY	0-3	0	SUB Y DELAY
6	SU2P	0-15	7	SUB U2 PEDESTAL OFFSET
7	SV2P	0-15	7	SUB V2 PEDESTAL OFFSET
8	SY2D	0-3	20	SUB Y2 DRIVE
9	SU2D	0-15	11	SUB U2 DRIVE
10	SV2D	0-15	11	SUB V2 DRIVE
11	SPRE	0-3	3	SUB PRE-OVER

IC (Inset Chroma Decoder)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	PCDR	0-15	7	PIP COLOR
1	PHDR	0-15	7	PIP HUE
2	PAFC	0-3	2	PIP AFC LOOP GAIN
3	PTAD	0-15	7	PIP TRAP F0 ADJUSTMENT
4	PTOT	0,1	0	PIP CHROMA TOT FILTER
5	PSCN	0-15	7	PIP SUB CONTRAST
6	PYDC	0-7	0	PIP Y DC TRAN
7	PSHP	0,1	1	PIP SHARPNESS F0
8	PMSK	0,1	0	PIP MACRO VISION MASK

PP (Picture In Picture Vseries Only)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	BGHP	0-15	10	PIP H POSITION
1	BGHN	0-15	7	PIP H POSITION FOR NO SIGNAL
2	BGVP	0-15	7	PIP V POSITION
3	6BIT	0,1	1	6BIT(SMART6/SKIP6) MATRIX
4	MAHP	0-15	7	MAIN H ACQUISITION
5	MAVP	0-255	23	MAIN V ACQUISITION
6	SAHP	0-15	7	SUB H ACOUISITION
7	SAVP	0-255	23	SUB V ACQUISITION
8	DECS	0-31	18	SUB DECODER REGISTERS
9	DECM	0-31	18	MAIN DECODER REGISTERS
10	DIS	0-127	66	DISPLAY SETTING
11	BSIZ	0-15	2	BORDER SIZE
12	VPED	0-15	13	V PEDESTAL OFFSET
13	UPED	0-15	13	U PEDESTAL OFFSET

DAC (D/A Converter)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	UVSH	0-63	31	YUV SUB HUE
1	UVSC	0-63	31	YUV SUB COLOR

PI (Picture In Picture S Series only)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	PIPH		-	PIP H POSITION
1	PIPV		-	PIP V POSITION
2	PYSD		-	PIP SELECT DELAY
3	PYDL		-	PIP Y DELAY
4	PHDL		-	H-PULSE DELAY
5	PMVD		-	MAIN V-PULSE DELAY
6	PIVD		-	INSET V-PULSE DELAY
7	PCON		-	INSET CONTRAST
8	FRMY		-	FRAME Y
9	IPER		-	PIP PEDESTAIJ R-Y
10	IPEB		-	PIP PEDESTAL B-Y
11	PCPS		-	PIP CLP
12	PCPF		-	PIP CLP CYCLES
13	PPLL		-	PIP PLL TIME CONSTANT
14	PVNR		-	PIP VSP PULSE NOISE REDUCTION

ID (Identification)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	AREA	0-3	0	AREA ID
1	SERS	0-3	0	SERIES ID
2	VCHP	0-3	0	V CHIP ID

CCD (Closed Caption Decoder)

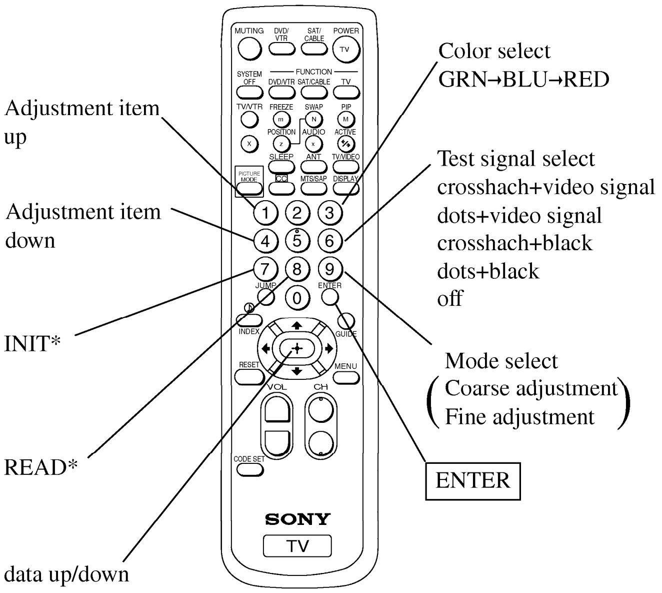
ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	CCHP	0-63	39	OSD H POSI FOR INDEX & CC/XDS
1	CCHN	0-63	29	NO FUNCTION

OP (Option)

ITEM NUMBER	ADJUSTMENT ITEM	DATA RANGE	STANDARD DATA	NOTE
0	DISP	0-63	9	OSD H POSITION
1	FW1	0-7	2	FIELD1 WINDOW
2	FW2	0-7	3	FIELD2 WINDOW

3-10. REGISTRATION ADJUSTMENT (PJE)

• FUNCTION OF BUTTONS OF REMOTE COMMANDER FOR PJE MODE.


Adjustment item up
Adjustment item down
INIT*
READ*
data up/down
Color select
GRN→BLU→RED
Test signal select
crosshach+video signal
dots+video signal
crosshach+black
dots+black
off
Mode select
(Coarse adjustment
Fine adjustment)
ENTER
MUTING
DVD/VTR
SAT/CABLE
POWER
TV
SYSTEM OFF
FUNCTION
DVD/VTR
SAT/CABLE
TV
TV/VTR
FREEZE
SWAP
PIP
POSITION
AUDIO
ACTIVE
SLEEP
ANT
TV/VIDEO
PICTURE MODE
CC
MTS/SAP
DISPLAY
1
2
3
4
5
6
7
8
9
0
JUMP
ENTER
INDEX
GUIDE
RESET
MENU
VOL
CH
CODE SET
SONY
TV

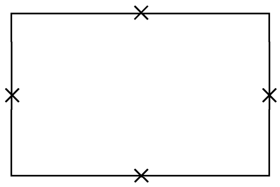
INIT*: Press 7, "INIT" green letters appear on the screen. Then press ENTER, all the PJE data are reset.

READ*: Press 8, "READ" green letters appear on the screen. Then press ENTER, all the PJE default data are restored.

Note: Internal patterns are used for geometry and convergence adjustments. However, sizing and centering must be done with the use of an external generator. The recommended pattern would be a monoscope, or equivalent pattern, which would provide the means to adjust both the linearity and sizing of the picture.

[SETUP FOR ADJUSTMENT]

- Current flow in circuit should be stable before attempting adjustment. So wait 5 minutes after turning on the TV power.
- At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.


× : middle

1. Set to the service mode by pressing quickly keys on the remote commander in the standby mode in the following order:
   DISPLAY → 5 → VOL+ → TV POWER
2. Change TV mode to the video input mode.
3. Change the VPNT mode to the PJE 00 FDIS.

```
PJE     00     00
FDIS     I
```

4. Set FDIS data to "01" to display the registration data of each spot in the fine adjustment.

```
PJE     00     01
FDIS     I
```

5. Press 6 to display the test signal (crosshatch) on the screen.
6. Select GRN CENT(*) with the 1 and 4 keys on the remote commander and check that the adjustment data is now "000" both vertically and horizontally.

```
         (H)   (V)
GRN      000   000
CENT
```

*: In the factory preset, "GRN CENT" appears on the screen first. In case of other colors "RED" or "BLU", change color by every pressing 3 key.

7. Cover the both red and blue picture lenses with the lens caps to show only the green color.

SUB DEFLECTION ADJUSTMENT ITEM

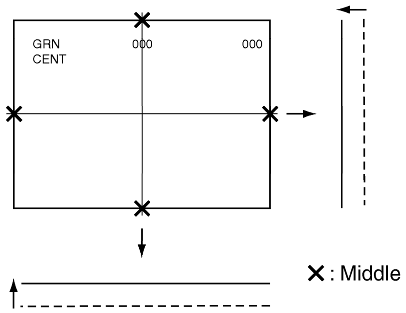
Adjustment O : Yes – : No

Display	Adjustment item	Adjustment type		
		G	R	B
		H/V	H/V	H/V
CENT	CENT	O/O	O/O	O/O
SKEW	SKEW	O/O	O/O	O/O
SIZE	SIZE	–/–	O/O	O/O
LIN	LIN	–/–	O/–	O/–
KEY	KEY	–/–	–/O	–/O
PIN	PIN	–/O	–/O	–/O

[GREEN REGISTRATION ADJUSTMENT]

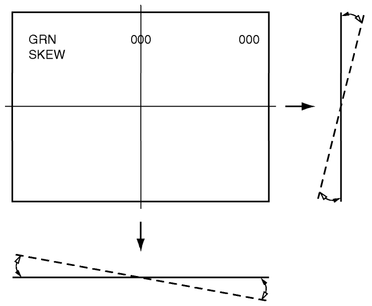
<GREEN CENTER>

1. Select GRN CENT $\boxed{1}$and $\boxed{4}$ keys on the remote commander.
2. Adjust the center of crosshatch line goes the middle vertically and horizontally (GRN CENT) with the joystick on the remote commander.



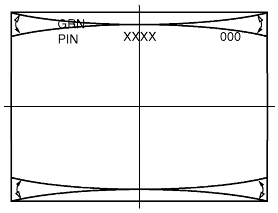
<GREEN SKEW>

1. Select GRN SKEW with the $\boxed{1}$and $\boxed{4}$ keys on the remote commander.
2. Adjust the crosshatch line goes straight vertically and horizontally with the joystick on the remote commander.



<GREEN PINCUSHION>

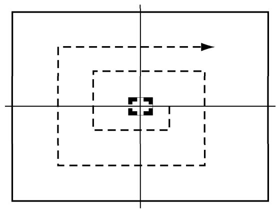
1. Select GRN PIN with the $\boxed{1}$and $\boxed{4}$ keys on the remote commander.
2. Adjust the crosshatch line goes straight horizontally with the joystick on the remote commander.



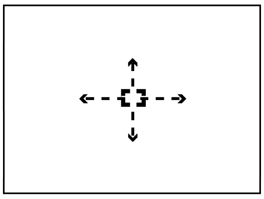
Note : These are required when either severe miss-adjustment or data loss occurred.

<FINE ADJUSTMENT>

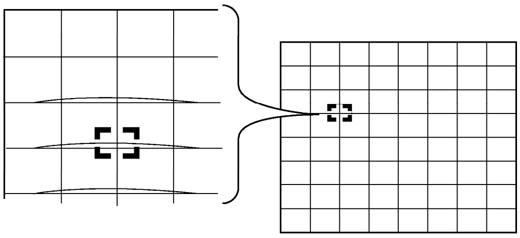
1. Press $\boxed{9}$ key on the remote commander to shift to the fine adjustment mode.
   The green cursor (in the GRN mode) appears on the center of the screen.
2. Use the $\boxed{1}$and $\boxed{4}$ keys or the joystick on the remote commander, move the cursor (see below) everywhere you want to adjust and adjust with the joystic keys on the remote commander.
   Marker movement by the $\boxed{1}$ and $\boxed{4}$ keys:



Press once the joystick the cursor turns green to white.
Then you can move the cursor up and down left and right every where you want.



Press once the joystick the cursor stops and returns green, you can adjust around the cursor.



3. Press $\boxed{9}$ key on the remote commander to shift to the coarse adjustment mode.

[RED REGISTRATION ADJUSTMENT]

<RED CENTER, SKEW>

1. Cover the blue picture lens with the lens cap to show the green and red colors.
2. Press $\boxed{3}$ key on the remote commander to shift the GRN mode to the RED mode.
3. Select RED CENT or RED SKEW with the $\boxed{1}$ and $\boxed{4}$ keys on the remote commander and adjust while tracking each other alternately.
4. Adjust the red crosshatch lines go straight vertically and horizontally and overlaps the green lines with the joystick on the remote commander.

<RED SIZE, LINEARITY>

1. Select RED SIZE (vertically and horizontally) or RED LIN (vertically) with the $\boxed{1}$ and $\boxed{4}$ keys on the remote commander and adjust while tracking each other alternately.
2. Adjust the red crosshatch lines go straight vertically and horizontally and overlaps the green lines with the joystick on the remote commander.

<RED KEY, PINCUSHION>

1. Select RED KEY or PINCUSHION with the $\boxed{1}$ and $\boxed{4}$ keys on the remote commander and adjust while tracking each other alternately.
2. Adjust the red crosshatch lines go straight horizontally and overlaps the green lines
   with the joystick on the remote commander.

Note : These are required when either severe miss-adjustment or data loss occurred.

<FINE ADJUSTMENT>

1. Press $\boxed{9}$ key on the remote commander to shift to the fine adjustment mode.
   The red cursor (in the RED mode) appears on the center of the screen.
2. Use the $\boxed{1}$ and $\boxed{4}$ keys or the joystick on the remote commander, move the cursor everywhere you want to adjust and adjust with the joystick on the remote commander.

[BLUE REGISTRATION ADJUSTMENT]

1. Remove the lens cap from the blue picture lens to show full color.
2. Press $\boxed{3}$ key on the remote commander to shift the RED mode to the BLU mode.
3. Adjust BLU CENT, BLU SKEW, BLU SIZE, BLU LIN, BLU KEY and BLU PIN in the same procedure of the red registration adjustment.

[FINAL CHECK]

1. Store the new adjustment (offset) value on the remote control by pressing $\boxed{\text{MUTING}}$ and $\boxed{\text{ENTER}}$.
2. Press the FLASH FOCUS button on the front panel.
   (The Offset value is now automatically stored.)
3. Check that no error message appears.
   If an error message appears, recheck.

Note: In case of replacing CRTs, adjust the set-up adjustments (items 3-1 to 3-8) and the registration adjustment (item 3-10).
In case of replacing two or three CRTs at the same time, replace and adjust one by one.

3-11. AUTO REGISTRATION ERROR CODE LIST

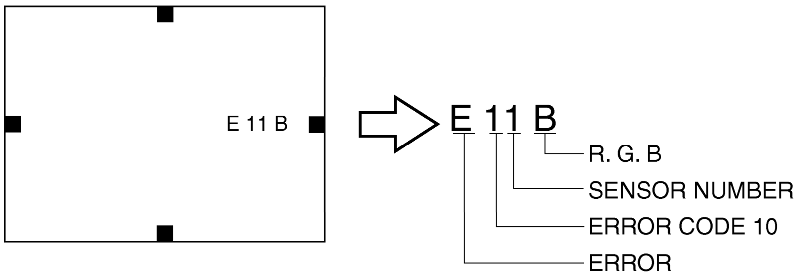
If an error code is displayed after the set has been fully adjusted, correctly, please check the following items: position, tilt and sizing. If either of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensors to read. Therefore, auto registration (called auto-focus) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

[ERROR CODE LIST]

ERROR CODE	DISCRIPTION	NOTE	
00	No Error		
10	Sensor Output Level Low	* Check wiring, beam position, sensor.	0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center
20	Sensor Output Level High	* Check OP-amp circuit.	0 : Upper Center 1 : Middle Left 2 : Middle Right 3 : Lower Center
30	Adjustment Loop Counter Overflow	* Check the registring information on the convergence board.	
40	Regi Data Overflow	* Check the convergence yoke driver ICs.	
50	Regi Data Overflow		
60	Offset Overflow	* Convergence patterns displayed are out of normal range.	
70	Offset Overflow		

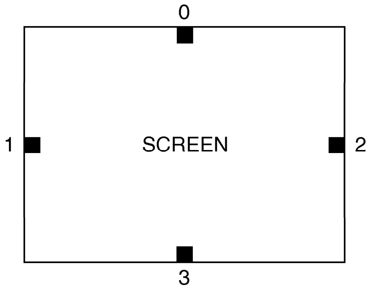
* In case of multiple error, last error is displayed.

• ERROR CODE SCREEN DISPLAY



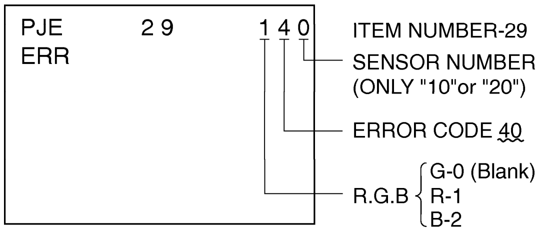
* Error code will be displayed on center of screen for 3 seconds.

[SENSOR POSITION]



0 : UPPER SENSOR
1 : LEFT SENSOR
2 : RIGHT SENSOR
3 : LOWER SENSOR

• ERROR CODE DISPLAY IN REGI SERVICE MODE



SECTION 4
SAFETY RELATED ADJUSTMENTS

[G BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check HV regulation, and if necessary re-adjust.

⧓ : C517
◪ : C517, C521, C522
IC654, L504
T502, T504 (FBT)
D.Y, A board, G board

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. (Fig.4-1)
2. Power on the set.
3. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
4. Check that the HV static voltmeter is reading $31.00\pm^{1.0}_{1.5}$kVdc.

HV Regulation adjustment

1. Connect a HV static voltmeter to the unconnected plug of the hight-voltage block.
2. Power on the set.
3. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
4. If anode voltage is 31.95kV or higher, replace C517 of 470PF/2kV with that of 1000PF/2kV, and check if the voltage is within the standard range.
5. If anode voltage is 29.45kV or lower, replace C517 of 470PF/2kV with that of 100PF/2kV, and check if the voltage is within the standard range.

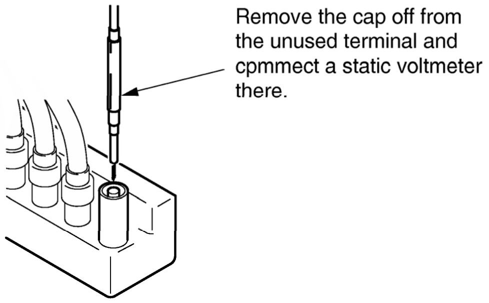

Remove the cap off from the unused terminal and cpmmect a static voltmeter there.

Fig. 4-1

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check hold-down voltage and if necessary re-adjust.

⧓ : R536, R545
◪ : C516, C536
D506, D507, D522
IC206, IC502, IC654
L504, R511, R522, R536, R538, R545,
R548, R584
T502, T504 (FBT)
D.Y, A board, G board

OPERATION CHECK

1. Remove CN652 connecter.
2. Short-circuit across TP-PROT and ground.
3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
4. Connect a 220Ω/200W variable resistor, across pin ② and pin ① of CN652 and connect an external dc power supply unit (200V, class 2A) to pin ③ of CN652.
5. First turn on the external power supply (+B=135V), then turn on the power of the set.
6. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
7. Gradually increase the value of the external dc power supply and check that the hold-down circuit operates at a static voltmeter reading of 33.5±1.0kVdc when the raster disappears.

HV HOLD-DOWN ADJUSTMENT

1. Repart steps ① ~ ⑦ as above.
2. If hold down voltage is 34.5kV or higher, remove R536, mount a resistor (150kΩ, 1/4W : RN) onto R545 instead, and check again if the hold-down voltage is within the standard range.
3. If hold down voltage is 32.5kV or lower, mount a resistor (220kΩ, 1/4W : RN) onto R536 and check again if the hold-down voltage is within the standard range.

NOTE : Please finish the adjustment as soon as possible

4-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC654.

1. Supply 130VAC to with variable autotransformer.
2. Input a dot signal.
3. Set the PICTURE control and the BRIGHTNESS controls to minimum.
4. Confirm the voltage of G BOARD TP135V is less than 137.0Vdc.
5. If step 4 is not satisfied, replace IC654 and repeat above steps.

4-4. +B OVP CONFIRMATION

1. Connect an external dc power supply to TP OVP.
2. Supply 120VAC to variable autotransformer.
3. Set PICTURE and the BRIGHTNESS controls to minimum.
4. Gradually turn the external dc power supply, and check if OVP works properly when the voltage of the external dc power supply is between 139.0 ~ 155.0V.

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. TV INPUT SUB CONTRAST ADJUSTMENT (VPNT-SCON)

1. Receive the color-bar signal.
2. Mode : Personal 1 or 2.
   PICTURE : maximum
   COLOR : maximum
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA VPNT SCON : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑦ of CN204 (A board) and ground.
5. Select " VPNT-SCON ", and adjust so that the wave from level is 1.80 ± 0.05Vp-p.
6. Write the data into memory.
   MUTING → ENTER

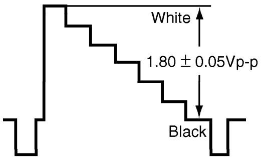


Fig. 5-1

5-2. VIDEO INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (VPNT-SHUE, SCOL)

1. Select VIDEO1 input and supply the color-bar signal.
2. Mode : Personal 1 or 2.
   PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA VPNT-SHUE : 7
   VPNT-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN204 (A board) connecter and ground.
5. Select " VPNT-SHUE, SCOL ", and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Increase SCOL by 2 steps.
7. Write the data into memory.
   MUTING → ENTER

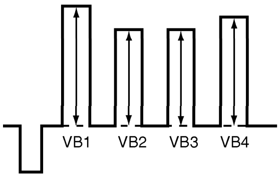


Fig. 5-2

5-3. COMPONENT INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (DAC-UVSH, UVSC)

1. Select VIDEO 4 and supply the color-bar signal.
   VIDEO input
2. Mode : Personal 1 or 2.
   PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA DAC UVSH : 31
   DAC UVSC : 31
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN204 (A board) connecter and ground.
5. Select " DAC-UVSH, UVSC ", and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.
   MUTING → ENTER

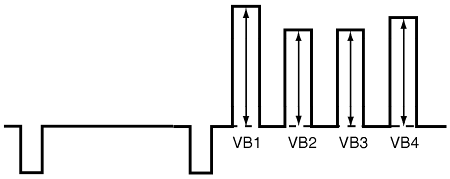


Fig. 5-3

5-4. P & P SUB CONTRAST ADJUSTMENT (SC-SYDR)

1. Receive the signal.
   TV terminal (sub) : color-bar signal
   VIDEO terminal (main) : no signal
2. Set to service mode and set to P & P mode.
3. Connect an oscilloscope between pin ⑦ of CN204 (A board) and ground.
4. Select " SC-SYDR ", and adjust so that the wave from level is 1.65 ± 0.05Vp-p.
5. Write the data into memory.
   MUTING → ENTER

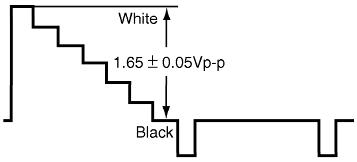


Fig. 5-4

5-5. SUB-HUE , SUB-COLOR AND MAIN CONTRAST ADJUSTMENT (MC-MYDR, MSHU, MSCL, SC-SSHU, SSCL)

1. Receive the color-bar signal.
2. Mode : Personal 1 or 2.
   PICTURE : maximum
   COLOR : center
   BRIGHTNESS : center
   TRINITONE : medium
   SERVICE DATA MC-MYDR : 22
   MC-MSHU : 31
   MC-MSCL : 31
   SC-SSHU : 31
   SC-SSCL : 31
3. Set to service mode and set to P & P model .
4. Connect an oscilloscope between pin ⑤ of CN204 (A board) connecter and ground.
5. Select “ MC-MYDR”, and adjust them to have VB1 = VB5 in the waveform levels.
6. Select “ MC-MSCL, SC-SSCL” and adjust so that the wave form shows VB1=VB4 and VB5=VB8.
7. Select “ MC-MSHU, SC-SSHU” and adjust so that the wave form shows VB2=VB3 and VB6=VB7.
8. Write the data into memory.
   MUTING → ENTER

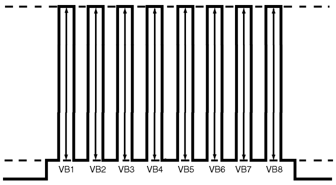


Fig. 5-5

5-6. BAR DISPLAY POSITION ADJUSTMENT (OP-DISP)

1. Receive the monoscope signal.
2. Set to service mode.
3. Push “ PICTURE +” . (Bar is displayed)
4. Select “ OP-DISP ” , and adjust so that the bar is as shown in the figure.
5. Write the data into memory.
   MUTING → ENTER

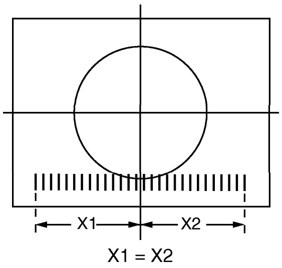


Fig. 5-6

5-7. PIP POSITION ADJUSTMENT (PI-PIPH, PIPV)

1. Set the PIP mode.
2. Receive the monoscope signal on the main/sub picture.
3. Check the sub picture position.

$$X1\text{-}X2 \leqq 0.25\text{sq}$$
$$X1\text{-}X2 \leqq 0.25\text{sq}$$

4. If necessary set to service mode and adjust "PIPH", "PIPV".
5. Write the data into memory.
   MUTING → ENTER

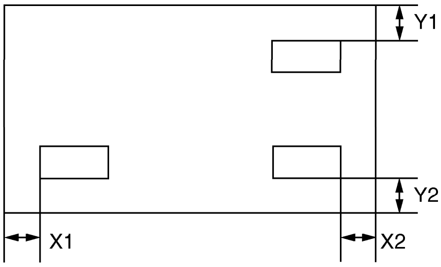
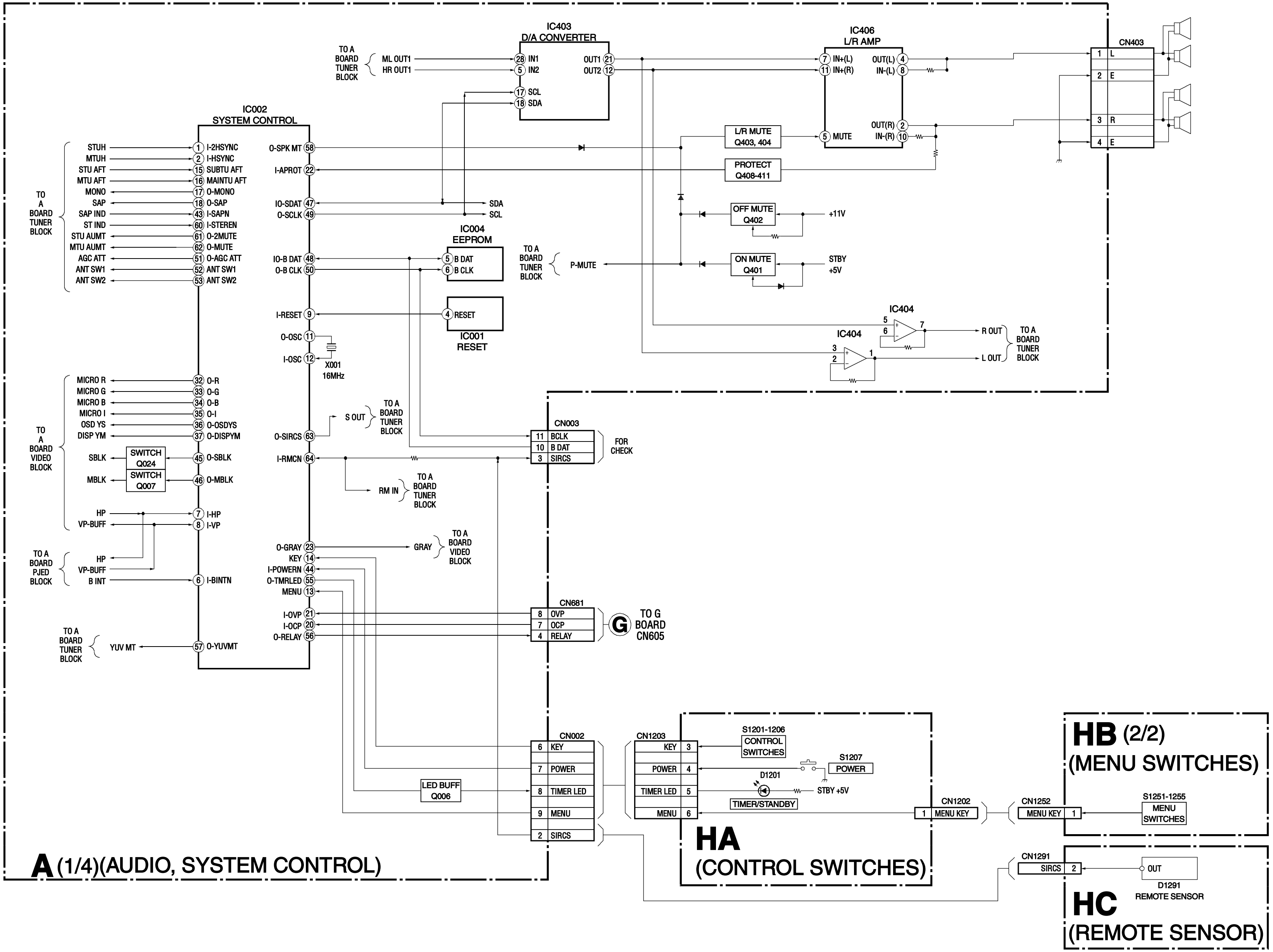


Fig. 5-7

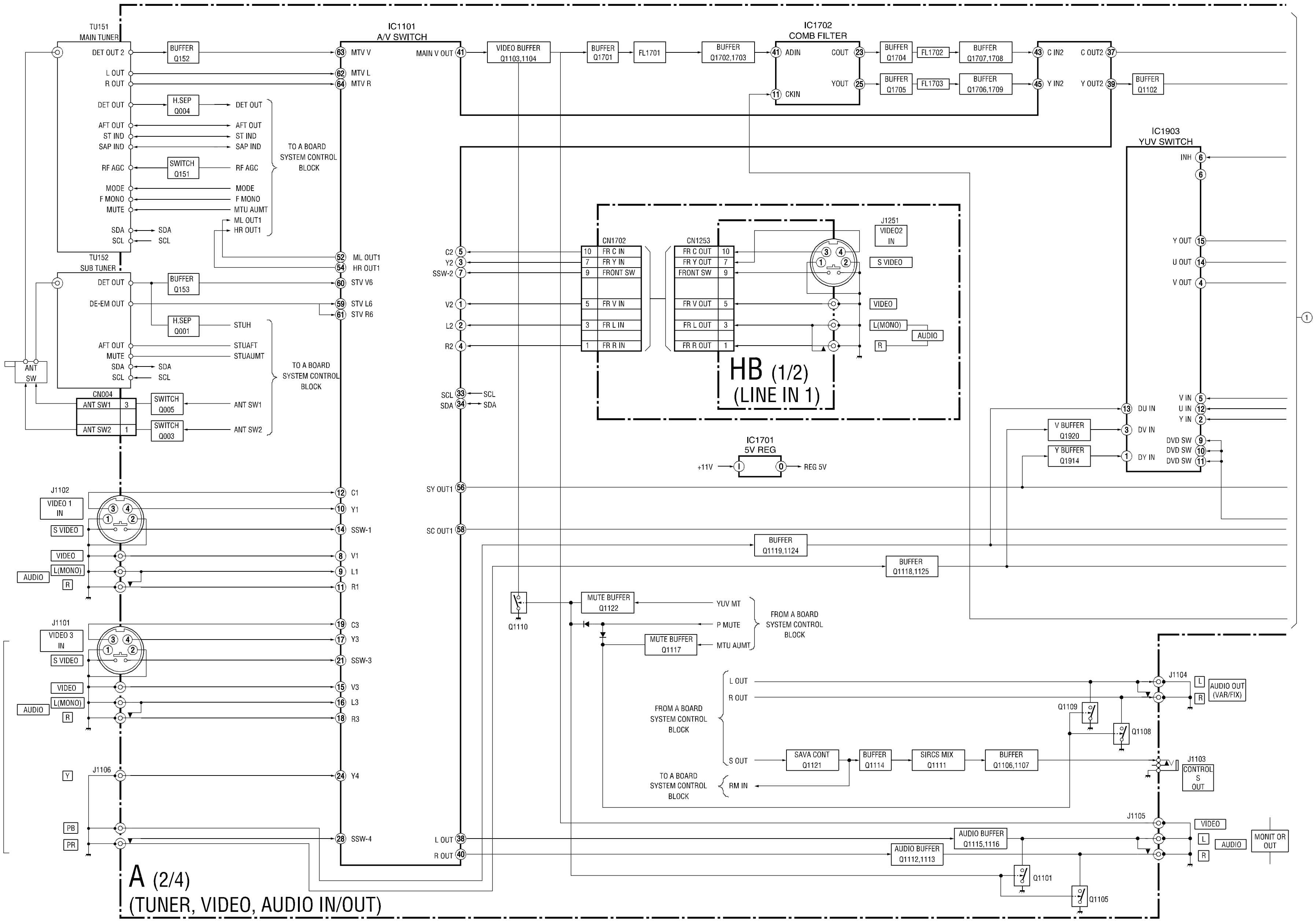
SECTION 6
DIAGRAMS

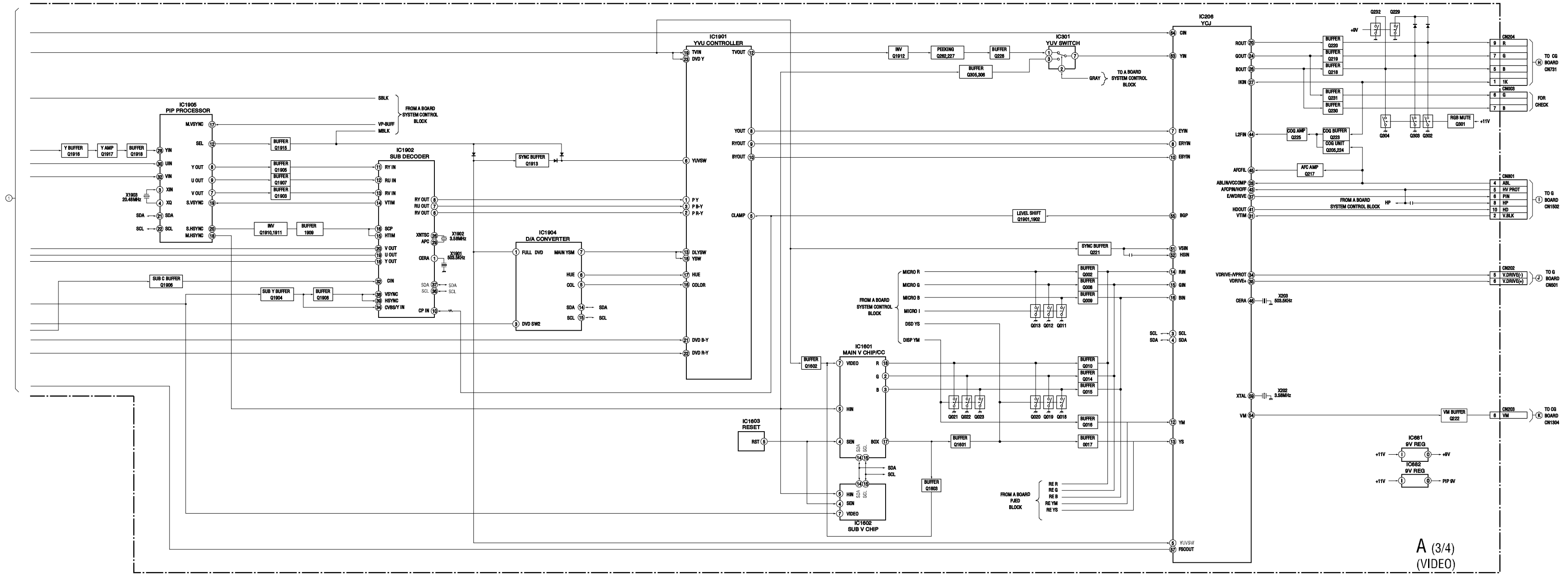
6-1. BLOCK DIAGRAM (1)



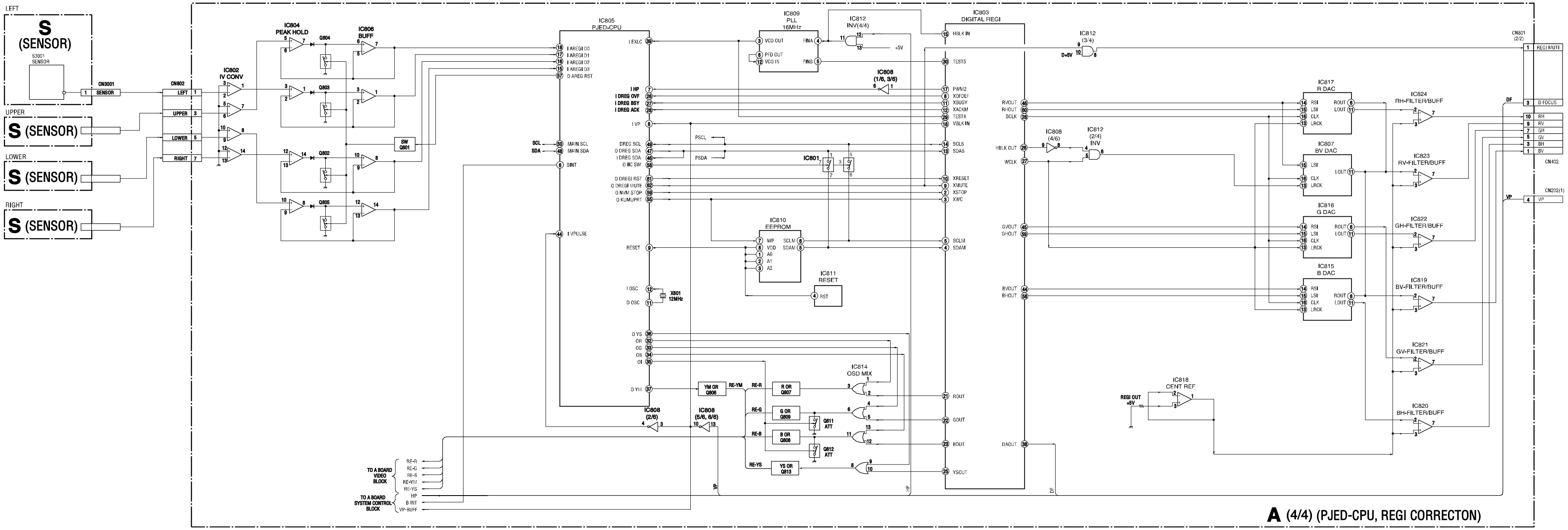
IC403
D/A CONVERTER
TO A BOARD TUNER BLOCK
ML OUT1
HR OUT1
28 IN1
5 IN2
17 SCL
18 SDA
OUT1 21
OUT2 12
IC406
L/R AMP
7 IN+(L)
11 IN+(R)
OUT(L) 4
IN-(L) 8
OUT(R) 2
IN-(R) 10
5 MUTE
CN403
1 L
2 E
3 R
4 E
IC002
SYSTEM CONTROL
STUH
MTUH
STU AFT
MTU AFT
MONO
SAP
SAP IND
ST IND
STU AUMT
MTU AUMT
AGC ATT
ANT SW1
ANT SW2
TO A BOARD TUNER BLOCK
1 I-2HSYNC
2 I-HSYNC
15 SUBTU AFT
16 MAINTU AFT
17 O-MONO
18 O-SAP
43 I-SAPN
60 I-STEREN
61 O-2MUTE
62 O-MUTE
51 O-AGC ATT
52 ANT SW1
53 ANT SW2
O-SPK MT 58
I-APROT 22
IO-SDAT 47
O-SCLK 49
SDA
SCL
L/R MUTE
Q403, 404
PROTECT
Q408-411
OFF MUTE
Q402
+11V
ON MUTE
Q401
STBY
+5V
TO A BOARD TUNER BLOCK
P-MUTE
IC004
EEPROM
IO-B DAT 48
O-B CLK 50
5 B DAT
6 B CLK
I-RESET 9
4 RESET
IC001
RESET
O-OSC 11
I-OSC 12
X001
16MHz
IC404
R OUT
L OUT
TO A BOARD TUNER BLOCK
MICRO R
MICRO G
MICRO B
MICRO I
OSD YS
DISP YM
SBLK
MBLK
TO A BOARD VIDEO BLOCK
SWITCH
Q024
SWITCH
Q007
32 O-R
33 O-G
34 O-B
35 O-I
36 O-OSDYS
37 O-DISPYM
45 O-SBLK
46 O-MBLK
HP
VP-BUFF
7 I-HP
8 I-VP
TO A BOARD PJED BLOCK
HP
VP-BUFF
B INT
6 I-BINTN
TO A BOARD TUNER BLOCK
YUV MT
57 O-YUVMT
S OUT
TO A BOARD TUNER BLOCK
O-SIRCS 63
I-RMCN 64
RM IN
TO A BOARD TUNER BLOCK
CN003
11 BCLK
10 B DAT
3 SIRCS
FOR CHECK
O-GRAY 23
KEY 14
I-POWERN 44
O-TMRLED 55
MENU 13
GRAY
TO A BOARD VIDEO BLOCK
I-OVP 21
I-OCP 20
O-RELAY 56
CN681
8 OVP
7 OCP
4 RELAY
G
TO G BOARD CN605
CN002
6 KEY
7 POWER
8 TIMER LED
9 MENU
2 SIRCS
LED BUFF
Q006
A (1/4)(AUDIO, SYSTEM CONTROL)
CN1203
KEY 3
POWER 4
TIMER LED 5
MENU 6
S1201-1206
CONTROL SWITCHES
S1207
POWER
D1201
STBY +5V
TIMER/STANDBY
CN1202
1 MENU KEY
HA
(CONTROL SWITCHES)
HB (2/2)
(MENU SWITCHES)
CN1252
MENU KEY 1
S1251-1255
MENU SWITCHES
CN1291
SIRCS 2
OUT
D1291
REMOTE SENSOR
HC
(REMOTE SENSOR)

BLOCK DIAGRAM (2)


TU151
MAIN TUNER
DET OUT 2
L OUT
R OUT
DET OUT
AFT OUT
ST IND
SAP IND
RF AGC
MODE
F MONO
MUTE
SDA
SCL
BUFFER
Q152
H.SEP
Q004
SWITCH
Q151
DET OUT
AFT OUT
ST IND
SAP IND
RF AGC
MODE
F MONO
MTU AUMT
ML OUT1
HR OUT1
TO A BOARD
SYSTEM CONTROL
BLOCK
IC1101
A/V SWITCH
MTV V
MTV L
MTV R
ML OUT1
HR OUT1
STV V6
STV L6
STV R6
MAIN V OUT
TU152
SUB TUNER
DET OUT
DE-EM OUT
AFT OUT
MUTE
SDA
SCL
BUFFER
Q153
H.SEP
Q001
STUH
STUAFT
STUAUMT
TO A BOARD
SYSTEM CONTROL
BLOCK
ANT
SW
CN004
ANT SW1
ANT SW2
SWITCH
Q005
SWITCH
Q003
ANT SW1
ANT SW2
J1102
VIDEO 1
IN
S VIDEO
VIDEO
L(MONO)
AUDIO
R
C1
Y1
SSW-1
V1
L1
R1
J1101
VIDEO 3
IN
S VIDEO
VIDEO
L(MONO)
AUDIO
R
C3
Y3
SSW-3
V3
L3
R3
J1106
Y
PB
PR
Y4
SSW-4
A (2/4)
(TUNER, VIDEO, AUDIO IN/OUT)
VIDEO BUFFER
Q1103,1104
BUFFER
Q1701
FL1701
BUFFER
Q1702,1703
IC1702
COMB FILTER
ADIN
COUT
YOUT
CKIN
BUFFER
Q1704
FL1702
BUFFER
Q1707,1708
BUFFER
Q1705
FL1703
BUFFER
Q1706,1709
C IN2
C OUT2
Y IN2
Y OUT2
BUFFER
Q1102
IC1903
YUV SWITCH
INH
Y OUT
U OUT
V OUT
V IN
U IN
Y IN
DU IN
DV IN
DY IN
DVD SW
DVD SW
DVD SW
V BUFFER
Q1920
Y BUFFER
Q1914
C2
Y2
SSW-2
V2
L2
R2
SCL
SDA
SY OUT1
SC OUT1
L OUT
R OUT
CN1702
FR C IN
FR Y IN
FRONT SW
FR V IN
FR L IN
FR R IN
CN1253
FR C OUT
FR Y OUT
FRONT SW
FR V OUT
FR L OUT
FR R OUT
J1251
VIDEO2
IN
S VIDEO
VIDEO
L(MONO)
AUDIO
R
HB (1/2)
(LINE IN 1)
IC1701
5V REG
+11V
REG 5V
BUFFER
Q1119,1124
BUFFER
Q1118,1125
Q1110
MUTE BUFFER
Q1122
MUTE BUFFER
Q1117
YUV MT
P MUTE
MTU AUMT
FROM A BOARD
SYSTEM CONTROL
BLOCK
L OUT
R OUT
S OUT
FROM A BOARD
SYSTEM CONTROL
BLOCK
TO A BOARD
SYSTEM CONTROL
BLOCK
RM IN
SAVA CONT
Q1121
BUFFER
Q1114
SIRCS MIX
Q1111
BUFFER
Q1106,1107
Q1109
Q1108
J1104
L
R
AUDIO OUT
(VAR/FIX)
J1103
CONTROL
S
OUT
J1105
VIDEO
L
R
AUDIO
MONIT OR
OUT
AUDIO BUFFER
Q1115,1116
AUDIO BUFFER
Q1112,1113
Q1101
Q1105
1


A (3/4)
(VIDEO)
①
IC1905
PIP PROCESSOR
Y BUFFER Q1916
Y AMP Q1917
BUFFER Q1918
YIN
UIN
VIN
XIN
XQ
X1903 20.48MHz
SDA
SCL
M.VSYNC
SEL
Y OUT
U OUT
V OUT
S.VSYNC
S.HSYNC
M.HSYNC
SBLK
VP-BUFF
MBLK
FROM A BOARD SYSTEM CONTROL BLOCK
BUFFER Q1915
BUFFER Q1905
BUFFER Q1907
BUFFER Q1903
INV Q1910,1911
BUFFER 1909
SUB C BUFFER Q1906
SUB Y BUFFER Q1904
BUFFER Q1908
IC1902
SUB DECODER
RY IN
RU IN
RV IN
VTIM
SCP
HTIM
V OUT
U OUT
Y OUT
CIN
VSYNC
HSYNC
CVBS/Y IN
RY OUT
RU OUT
RV OUT
XNTSC
APC
X1902 3.58MHz
CERA
X1901 503.5KHz
SDA
SCL
CP IN
SYNC BUFFER Q1913
IC1904
D/A CONVERTER
FULL DVD
MAIN YSM
HUE
COL
SDA
SCL
DVD SW2
IC1901
YVU CONTROLLER
TVIN
DVD Y
TVOUT
YOUT
RYOUT
BYOUT
YUVSW
P Y
P B-Y
P R-Y
CLAMP
DLYSW
YSW
HUE
COLOR
DVD B-Y
DVD R-Y
INV Q1912
PEEKING Q262,227
BUFFER Q228
BUFFER Q305,306
IC301
YUV SWITCH
GRAY
TO A BOARD SYSTEM CONTROL BLOCK
LEVEL SHIFT Q1901,1902
SYNC BUFFER Q221
MICRO R
MICRO G
MICRO B
MICRO I
DSD YS
DISP YM
FROM A BOARD SYSTEM CONTROL BLOCK
BUFFER Q002
BUFFER Q008
BUFFER Q009
Q013 Q012 Q011
IC1601
MAIN V CHIP/CC
BUFFER Q1602
VIDEO
R
G
B
HIN
SEN
BOX
SDA
SCL
Q021 Q022 Q023
Q020 Q019 Q018
BUFFER Q010
BUFFER Q014
BUFFER Q015
BUFFER Q016
BUFFER 0017
BUFFER Q1601
BUFFER Q1603
IC1603
RESET
RST
IC1602
SUB V CHIP
FROM A BOARD PJED BLOCK
RE R
RE G
RE B
RE YM
RE YS
IC206
YCJ
CIN
YIN
EYIN
ERYIN
EBYIN
BGP
VSIN
HSIN
RIN
GIN
BIN
SCL
SDA
YM
YS
YUVSW
FSCOUT
ROUT
GOUT
BOUT
IKIN
L2FIN
AFCFIL
ABLIN/VCCOMP
AFCPIN/HOFF
E/WDRIVE
HDOUT
VTIM
VDRIVE-/VPROT
VDRIVE+
CERA
X203 503.5KHz
XTAL
X202 3.58MHz
VM
Q232 Q229
+9V
BUFFER Q220
BUFFER Q219
BUFFER Q218
BUFFER Q231
BUFFER Q230
Q304 Q303 Q302
RGB MUTE Q301
+11V
COG AMP Q225
COG BUFFER Q223
COG UNIT Q205,224
AFC AMP Q217
FROM A BOARD SYSTEM CONTROL BLOCK
HP
VM BUFFER Q222
CN204
9 R
7 G
5 B
1 1K
TO CG BOARD CN731
CN003
6 G
7 B
FOR CHECK
CN801
4 ABL
5 HV PROT
6 PIN
8 HP
10 HD
2 V.BLK
TO G BOARD CN1502
CN202
5 V.DRIVE(-)
6 V.DRIVE(+)
TO G BOARD CN501
CN203
6 VM
TO CG BOARD CN1304
IC681
9V REG
+11V
+9V
IC682
9V REG
PIP 9V

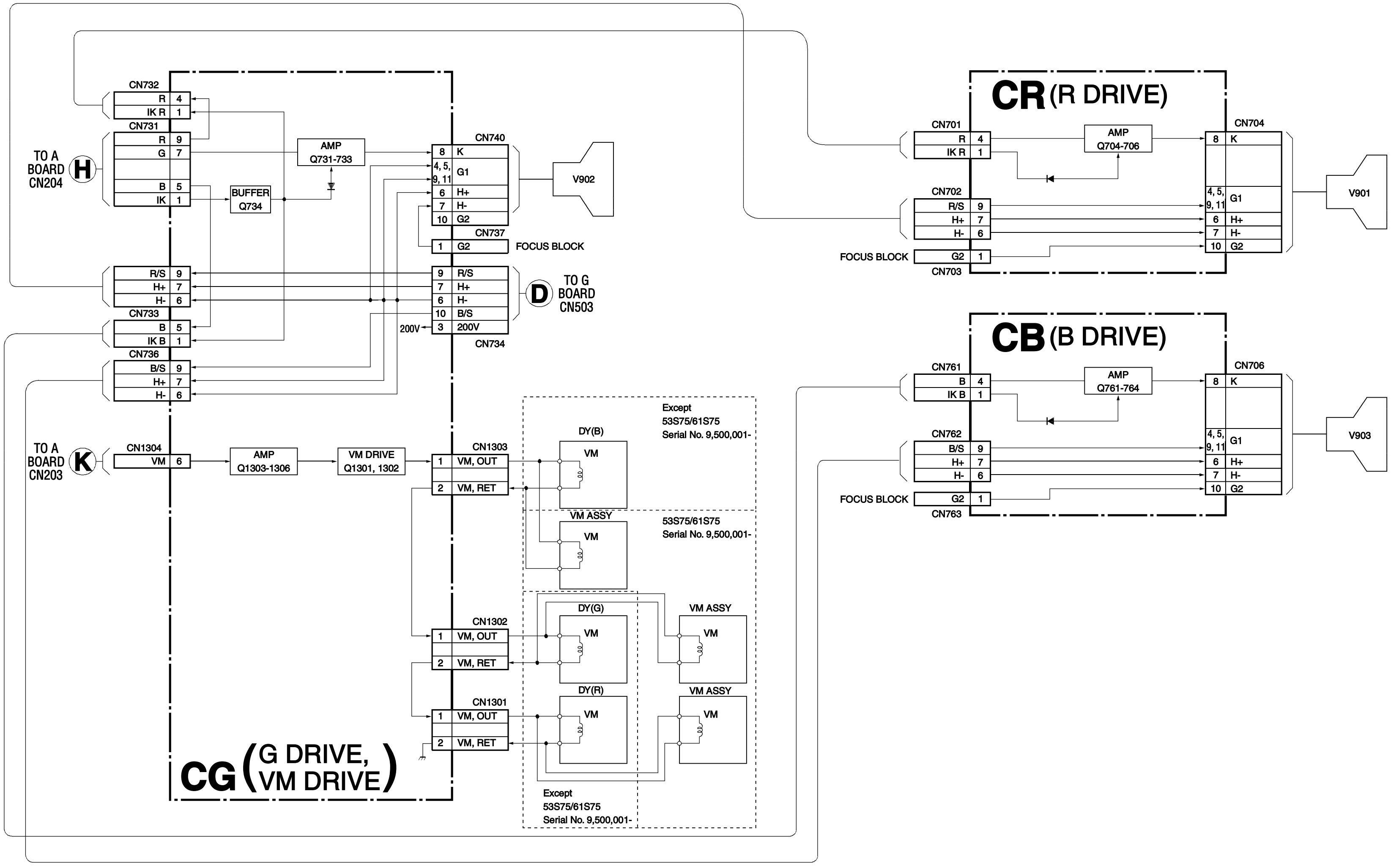
BLOCK DIAGRAM (3)


LEFT
S
(SENSOR)
S3001
SENSOR
UPPER
S (SENSOR)
LOWER
S (SENSOR)
RIGHT
S (SENSOR)
CN3001
1 SENSOR
CN802
LEFT 1
UPPER 3
LOWER 5
RIGHT 7
IC802
IV CONV
IC804
PEAK HOLD
Q804
Q803
Q802
Q805
IC806
BUFF
SW
Q801
IC805
PJED-CPU
I AREGI D0
I AREGI D1
I AREGI D2
I AREGI D3
O AREG RST
SCL
SDA
MAIN SCL
MAIN SDA
BINT
I VPULSE
I EXLC
I HP
I DREG OVF
I DREG BSY
I DREG ACK
I VP
DREG SCL
O DREG SDA
I DREG SDA
O IIC SW
O DREGI RST
O DREGI MUTE
O NVM STOP
O KUMUPRT
RESET
I OSC
O OSC
X801
12MHz
O YS
OR
OG
OB
OI
O YM
IC809
PLL
16MHz
VCO OUT
PFD OUT
VCO IN
FINA
FINB
IC812
INV(4/4)
+5V
IC808
(1/6, 3/6)
PSCL
PSDA
IC801
IC810
EEPROM
WP
VDD
A0
A1
A2
SCLM
SDAM
IC811
RESET
RST
IC808
(2/6)
IC808
(5/6, 6/6)
YM OR
Q806
RE-YM
RE-R
RE-G
RE-B
RE-YS
R OR
Q807
G OR
Q809
B OR
Q808
YS OR
Q813
Q811
ATT
Q812
ATT
IC814
OSD MIX
TO A BOARD
VIDEO
BLOCK
RE-R
RE-G
RE-B
RE-YM
RE-YS
TO A BOARD
SYSTEM CONTROL
BLOCK
HP
B INT
VP-BUFF
VP
HP
DF
IC803
DIGITAL REGI
HBLK IN
TEST5
PWM2
XOFDEF
XBUSY
XACKM
TEST4
VBLK IN
SCLS
SDAS
XRESET
XMUTE
XSTOP
XWC
SCLM
SDAM
ROUT
GOUT
BOUT
YSOUT
RVOUT
RHOUT
BCLK
HBLK OUT
WCLK
GVOUT
GHOUT
BVOUT
BHOUT
DAOUT
IC812
(3/4)
D+5V
IC808
(4/6)
IC812
(2/4)
INV
IC817
R DAC
IC807
BV DAC
IC816
G DAC
IC815
B DAC
RSI
LSI
CLK
LRCK
ROUT
LOUT
IC824
RH-FILTER/BUFF
IC823
RV-FILTER/BUFF
IC822
GH-FILTER/BUFF
IC819
BV-FILTER/BUFF
IC821
GV-FILTER/BUFF
IC820
BH-FILTER/BUFF
IC818
CENT REF
REGI OUT
+5V
CN801
(2/2)
1 REGI MUTE
3 D FOCUS
DF
L
TO G
BOARD
CN1502
10 RH
9 RV
7 GH
5 GV
3 BH
1 BV
CN402
M
TO G
BOARD
CN651
CN202(1)
4 VP
N
TO G
BOARD
CN501

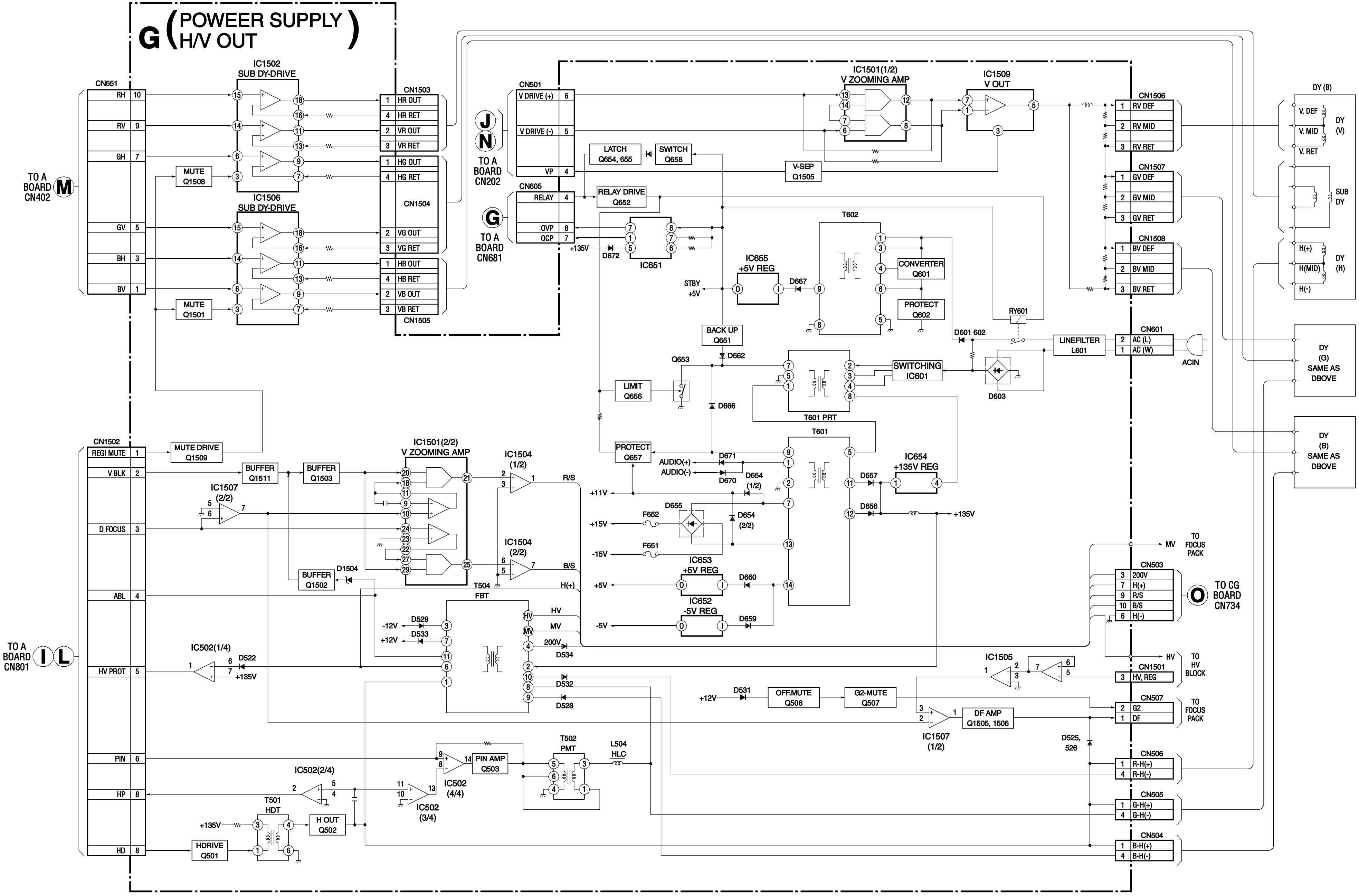
A (4/4) (PJED-CPU, REGI CORRECTON)

KP-48-53-61V80 -BD-6-M

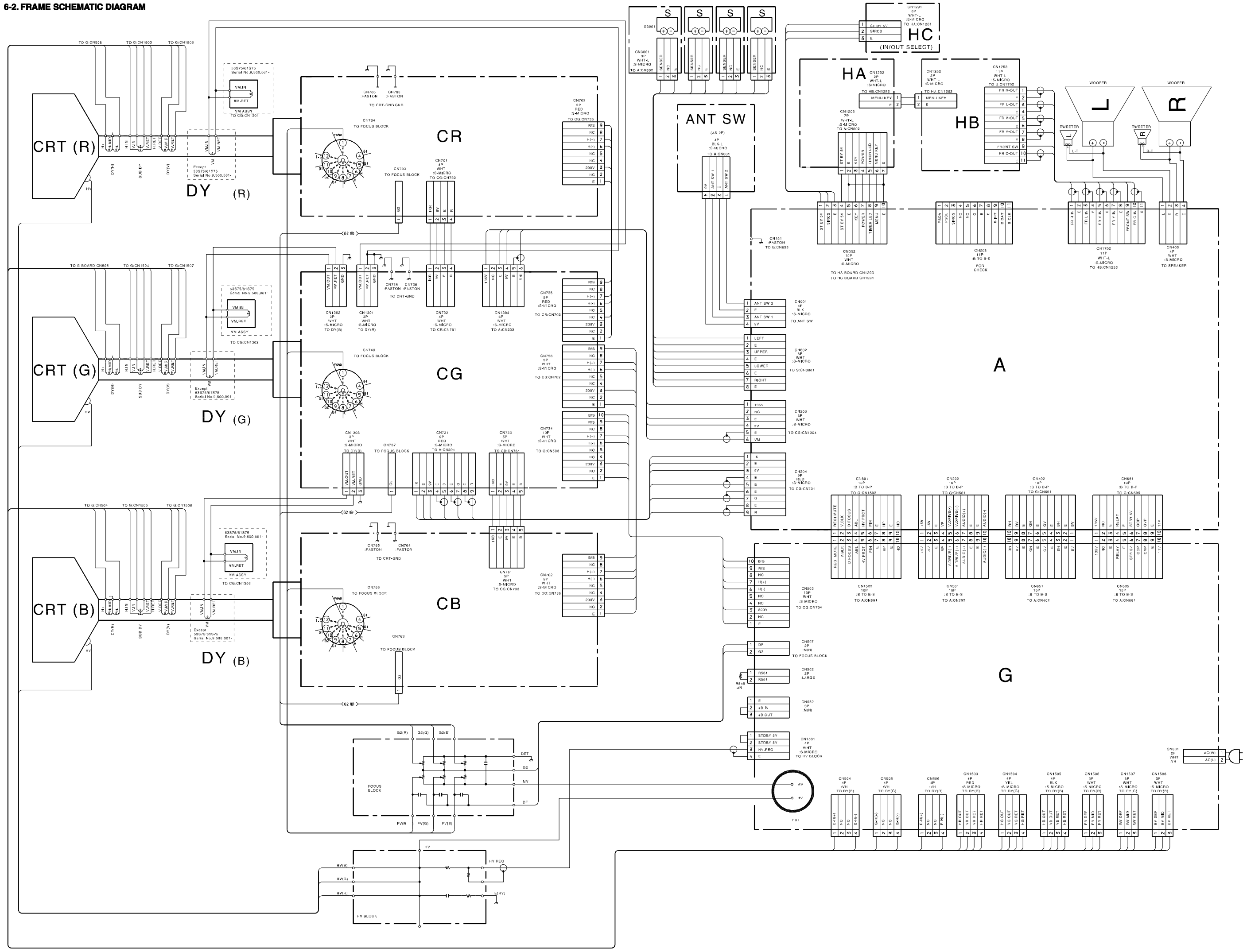
BLOCK DIAGRAM (4)


CG (G DRIVE, VM DRIVE)
CR (R DRIVE)
CB (B DRIVE)
TO A BOARD CN204
H
TO A BOARD CN203
K
TO G BOARD CN503
D
CN732
R 4
IK R 1
CN731
R 9
G 7
B 5
IK 1
AMP Q731-733
BUFFER Q734
CN740
8 K
4, 5, 9, 11 G1
6 H+
7 H-
10 G2
CN737
1 G2
FOCUS BLOCK
V902
R/S 9
H+ 7
H- 6
CN733
B 5
IK B 1
CN736
B/S 9
H+ 7
H- 6
9 R/S
7 H+
6 H-
10 B/S
3 200V
200V
CN734
CN1304
VM 6
AMP Q1303-1306
VM DRIVE Q1301, 1302
CN1303
1 VM, OUT
2 VM, RET
CN1302
1 VM, OUT
2 VM, RET
CN1301
1 VM, OUT
2 VM, RET
DY(B)
VM
VM ASSY
DY(G)
DY(R)
Except 53S75/61S75 Serial No. 9,500,001-
53S75/61S75 Serial No. 9,500,001-
CN701
R 4
IK R 1
AMP Q704-706
CN704
8 K
4, 5, 9, 11 G1
6 H+
7 H-
10 G2
V901
CN702
R/S 9
H+ 7
H- 6
FOCUS BLOCK
G2 1
CN703
CN761
B 4
IK B 1
AMP Q761-764
CN706
V903
CN762
B/S 9
H+ 7
H- 6
G2 1
CN763

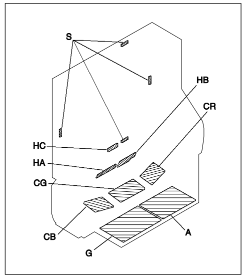
BLOCK DIAGRAM (5)


G (POWEER SUPPLY H/V OUT)
TO A BOARD M CN402
CN651
RH 10
RV 9
GH 7
GV 5
BH 3
BV 1
IC1502 SUB DY-DRIVE
IC1506 SUB DY-DRIVE
MUTE Q1508
MUTE Q1501
CN1503
1 HR OUT
4 HR RET
2 VR OUT
3 VR RET
1 HG OUT
4 HG RET
CN1504
2 VG OUT
3 VG RET
1 HB OUT
4 HB RET
2 VB OUT
3 VB RET
CN1505
TO A BOARD J N CN202
CN501
V DRIVE (+) 6
V DRIVE (-) 5
VP 4
TO A BOARD G CN681
CN605
RELAY 4
OVP 8
OCP 7
+135V
D672
IC651
LATCH Q654, 655
SWITCH Q658
RELAY DRIVE Q652
IC1501(1/2) V ZOOMING AMP
IC1509 V OUT
V-SEP Q1505
T602
CONVERTER Q601
PROTECT Q602
IC655 +5V REG
D667
STBY +5V
BACK UP Q651
D662
Q653
LIMIT Q656
D666
RY601
D601 602
LINEFILTER L601
SWITCHING IC601
D603
T601 PRT
T601
PROTECT Q657
AUDIO(+)
AUDIO(-)
D671
D670
D654 (1/2)
+11V
D655
F652
+15V
D654 (2/2)
F651
-15V
IC653 +5V REG
D660
+5V
IC652 -5V REG
D659
-5V
IC654 +135V REG
D657
D656
+135V
CN1506
1 RV DEF
2 RV MID
3 RV RET
CN1507
1 GV DEF
2 GV MID
3 GV RET
CN1508
1 BV DEF
2 BV MID
3 BV RET
CN601
2 AC (L)
1 AC (W)
ACIN
DY (B)
V. DEF
V. MID
V. RET
DY (V)
SUB DY
H(+)
H(MID)
H(-)
DY (H)
DY (G) SAME AS DBOVE
DY (B) SAME AS DBOVE
MV
TO FOCUS PACK
CN503
3 200V
7 H(+)
9 R/S
10 B/S
6 H(-)
TO CG BOARD O CN734
HV
TO HV BLOCK
CN1501
3 HV, REG
IC1505
CN507
2 G2
1 DF
TO FOCUS PACK
D531
+12V
OFF.MUTE Q506
G2-MUTE Q507
DF AMP Q1505, 1506
IC1507 (1/2)
D525, 526
CN506
1 R-H(+)
4 R-H(-)
CN505
1 G-H(+)
4 G-H(-)
CN504
1 B-H(+)
4 B-H(-)
TO A BOARD I L CN801
CN1502
REGI MUTE 1
V BLK 2
D FOCUS 3
ABL 4
HV PROT 5
PIN 6
HP 8
HD 8
MUTE DRIVE Q1509
BUFFER Q1511
BUFFER Q1503
IC1507 (2/2)
IC1501(2/2) V ZOOMING AMP
IC1504 (1/2)
R/S
IC1504 (2/2)
B/S
H(+)
BUFFER Q1502
D1504
T504 FBT
-12V
D529
+12V
D533
HV
MV
200V
D534
D532
D528
IC502(1/4)
D522
+135V
IC502(2/4)
PIN AMP Q503
IC502 (4/4)
IC502 (3/4)
T502 PMT
L504 HLC
T501 HDT
+135V
H OUT Q502
HDRIVE Q501

6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



Note: The symbol ▮ display is on the component side.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol ▮ indicate fast operating fuse. Replace only with fuse of same rating as maked.

Note: Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole ▮ indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.
  kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.
  Pitch : 5mm
  Rating electrical power : 1/4W
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved. (Refer to R536,R545 and C517 adjustment on Page 51 – 52.)
- When replacing the part in below table, be sure to perform the related adjustment.

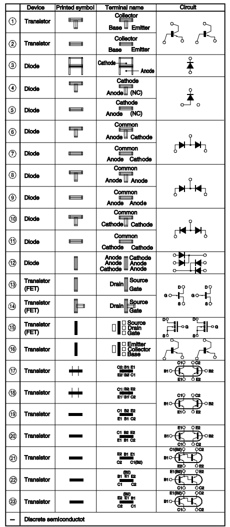
Part replaced (◪)	Adjustment (⧓)
C517, C521, C522, IC654, L504, T502, T504, DY, A board, G board	HV Regurator (C517)
C516, C536, D506, D507, D522, IC206, IC502, IC654, L504, R511, R522, R536, R538, R545, R548, R584, T502, T504, DY, A board, G board	HV HOLD-DOWN (R536, R545)

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  ∗ : Measurement impossibility.
- Circled numbers are waveform references.
- ▬▬ : B+ bus.
- ▬ ▬ ▬ : B– bus.
- ⇨ : signal path.(RF)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ✲	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Terminal name of semiconductors in silk screen printed circuit (∗)

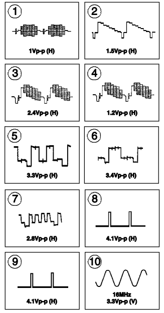


	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Cathode Anode Anode Cathode Anode	
⑬	Transistor (FET)		Drain Source Gate	D G S
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	D G S
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C2 B1 E1 E2 B2 C1	C1 C2 B1 B2 E1 E2
⑱	Transistor		C1 B2 E2 E1 B1 C2	C1 C2 B1 B2 E1 E2
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	E1 E2 B1 B2 C1 C2
㉑	Transistor		E2 B1 E1 C2 C1(B2)	C1(B2) C2 B1 E2 E2
㉒	Transistor		(B2) B1 E1 E2 C1 C2	E1(B2) E2 B1 C1 C2
㉓	Transistor		(B2) E2 E1 B1 C2 C1	E1(B2) C2 B1 C1 C2
–	Discrete semiconductot			

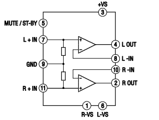
(Chip semiconductors that are not actually used are included.)

Ver.1.6

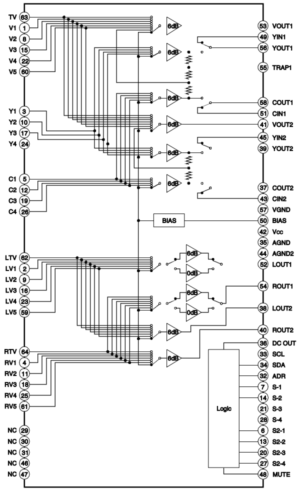
• A (1/3) BOARD WAVEFORMS

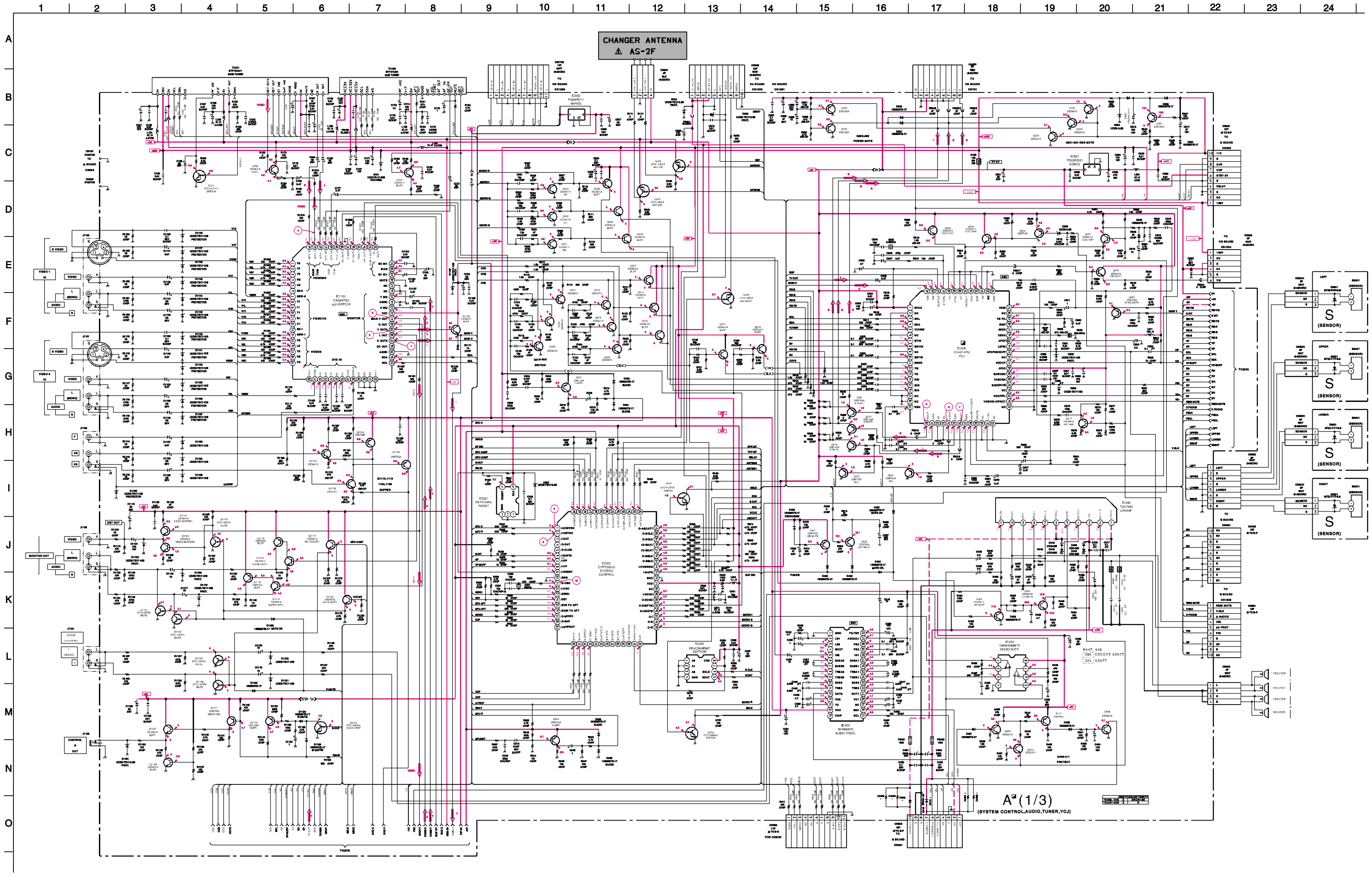


A (1/3) BOARD : IC406 TDA7265


+VS
③
MUTE / ST-BY ⑤
L + IN ⑦
GND ⑨
R + IN ⑪
④ L OUT
⑧ L -IN
⑩ R -IN
② R OUT
①
⑥
R-VS
L-VS

A (1/3) BOARD : IC1011 CXA2079Q


TV 63
V1 1
V2 8
V3 15
V4 22
V5 60
Y1 3
Y2 10
Y3 17
Y4 24
C1 5
C2 12
C3 19
C4 26
LTV 62
LV1 2
LV2 9
LV3 16
LV4 23
LV5 59
RTV 64
RV1 4
RV2 11
RV3 18
RV4 25
RV5 61
NC 29
NC 30
NC 31
NC 46
NC 47
6dB
BIAS
Logic
53 VOUT1
49 YIN1
56 YOUT1
55 TRAP1
58 COUT1
51 CIN1
41 VOUT2
45 YIN2
39 YOUT2
37 COUT2
43 CIN2
57 VGND
50 BIAS
42 Vcc
35 AGND
44 AGND2
52 LOUT1
54 ROUT1
38 LOUT2
40 ROUT2
36 DC OUT
33 SCL
34 SDA
32 ADR
7 S-1
14 S-2
21 S-3
28 S-4
6 S2-1
13 S2-2
20 S2-3
27 S2-4
48 MUTE


1
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3
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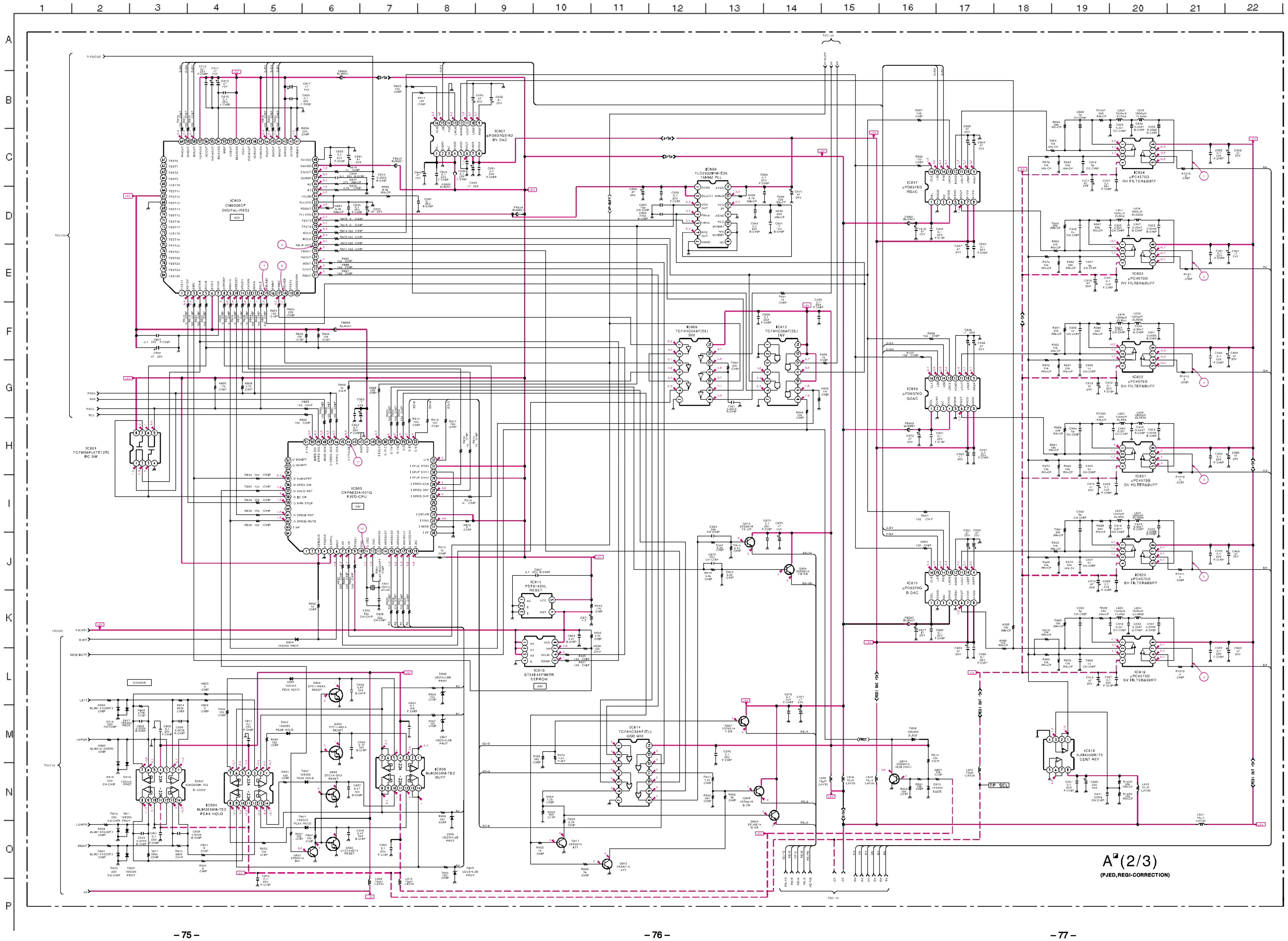
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CHANGER ANTENNA
⚠ AS-2F
IC1011
CXA2079Q
IC302
CXP750010
SYSTEM CONTROL
IC406
TDA7265
IC405
(SENSOR)
S
A (1/3)
(SYSTEM CONTROL,AUDIO,TUNER,YCJ)
Q408-411
PROTECT

	SN77	EXCEPT SN77
*D409, 416	X	ERC91-02
*CJ401-404	0	X

Schematic diagram
A (1/3) S board →


1
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3
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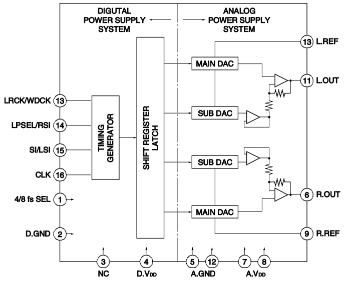
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
IC803
IC805
IC807
IC809
IC813
IC814
IC815
IC816
IC817
IC818
IC819
IC820
IC821
IC822
IC823
IC824
TP SCL

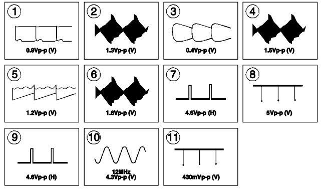
A²(2/3)
(PJED,REGI-CORRECTION)

A (2/3) BOARD : IC807, 815, 816, 817

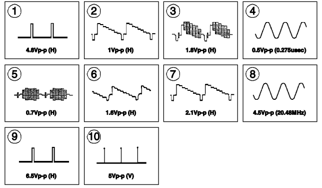
µPD6376GS-E2

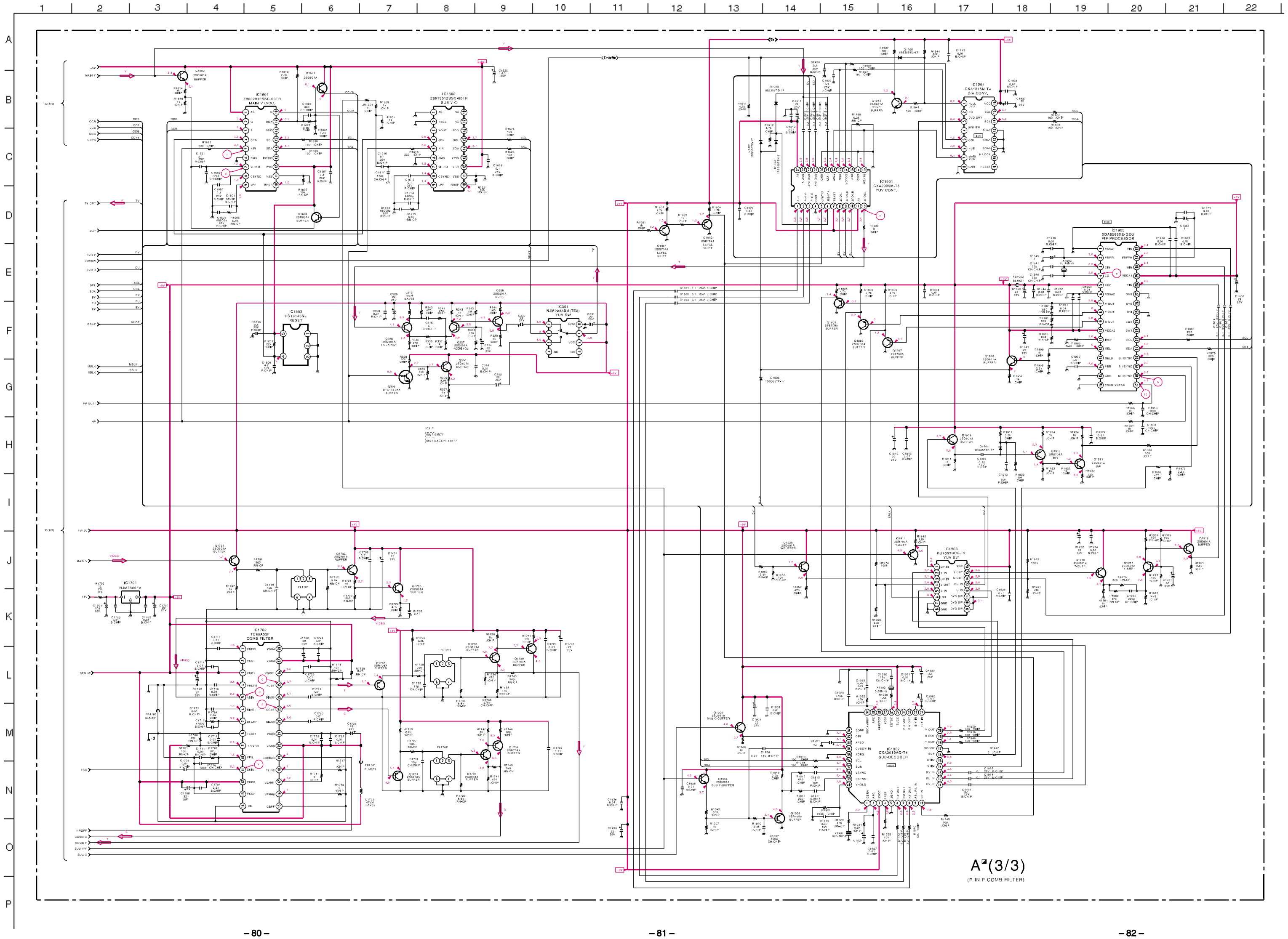

DIGUTAL
POWER SUPPLY
SYSTEM
ANALOG
POWER SUPPLY
SYSTEM
TIMING
GENERATOR
SHIFT REGISTER
LATCH
MAIN DAC
SUB DAC
SUB DAC
MAIN DAC
LRCK/WDCK 13
LPSEL/RSI 14
SI/LSI 15
CLK 16
4/8 fs SEL 1
D.GND 2
13 L.REF
11 L.OUT
6 R.OUT
9 R.REF
3 NC
4 D.VDD
5 12 A.GND
7 8 A.VDD

• A (2/3) BOARD WAVEFORMS



• A (3/3) BOARD WAVEFORMS

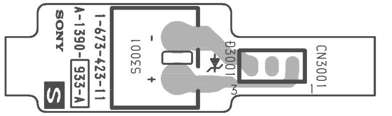



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

A◪(3/3)

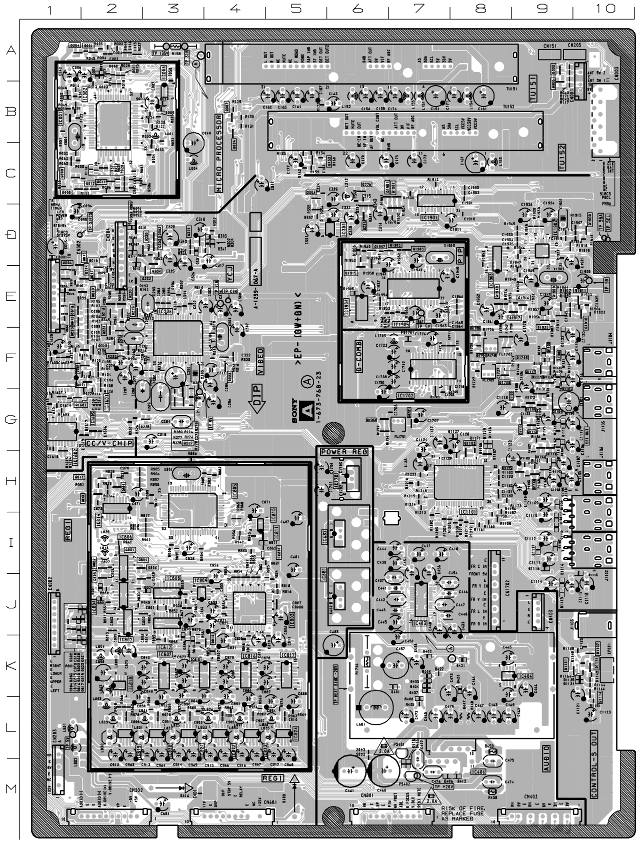
(P IN P,COMB FILTER)

S [P IN P, 3D COMB FILTER]

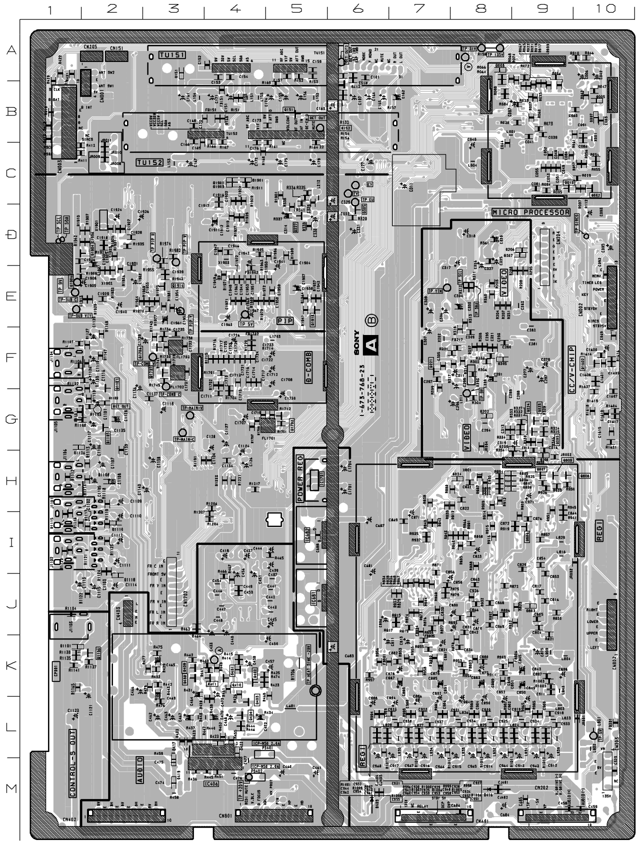

SONY
A-1390-933-A
1-673-423-11
S3001
D3001
CN3001
S

A (1/3) [TUNER, YCJ, SYSTEM CONTROL, AUDIO] **A (2/3)** [PJED, REGI-CORRECTION] **A (3/3)** [P IN P, 3D COMB FILTER]

– A Board –


1 2 3 4 5 6 7 8 9 10
A B C D E F G H I J K L M
SONY
A
MICRO PROCESSOR
VIDEO
CC/V-CHIP
POWER REG
REG1
AUDIO
CONTROL-S OUT
TU151
TU152
RISK OF FIRE. REPLACE FUSE AS MARKED.

< Component Side >


1 2 3 4 5 6 7 8 9 10
A B C D E F G H I J K L M
TU151
TU152
SONY
A
MICRO PROCESSOR
VIDEO
CC/V-CHIP
POWER REG
REG1
AUDIO
CONTROL-S OUT

< Conductor Side >

A BOARD

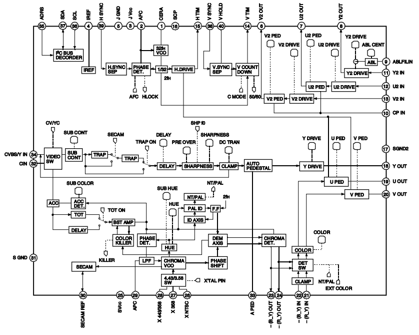
DIODE	L	R	*
D001	A-2		③
D002	A-2		③
D003	B-1		③
D004	F-1		③
D005		B-10	③
D006	E-1		③
D151		A-3	③
D202		G-8	③
D206		D-9	③
D207		D-9	③
D208		H-9	③
D209		G-9	③
D301	D-3		③
D302	D-4		③
D303	D-4		③
D304	D-4		③
D305		F-8	③
D402	K-7		③
D403	K-7		③
D404	K-7		③
D405	K-7		③
D406	M-7		③
D407	K-7		③
D408	K-7		③
D409	M-3	M-8	-
D412	M-8		③
D413	M-7		③
D416	M-3	M-8	-
D418	M-7		③
D420	K-8		③
D421	K-8		③
D801	J-2		③
D802	J-2		③
D803		J-9	③
D804	J-3		③
D805		H-9	③
D806		H-9	③
D807		H-9	③
D808		H-9	③
D809	K-3		③
D810	K-3		③
D816	K-1		③
D817	K-2		③
D818	J-1		③
D819	J-2		③
D820	J-1		③
D821	J-2		③
D822	J-1		③
D823	J-2		③
D824		H-8	③
D1101		K-1	③
D1102		G-7	③
D1103	H-9		③
D1104	G-9		③
D1105	H-9		③
D1106	F-9		③
D1107	I-9		③
D1108		H-2	③
D1109	H-9		③
D1110		I-2	③
D1111	I-9		③
D1112	I-9		③
D1113	J-9		③
D1114	J-9		③
D1115	J-9		③
D1116	I-9		③
D1117	I-9		③
D1118		J-2	③
D1119	G-9		③
D1120	F-9		③
D1121	F-9		③
D1122	F-9		③
D1123	F-9		③
D1124	K-10		③
D1125	K-10		③
D1126		G-1	③
D1127	G-8		③
D1901		C-4	③
D1902		C-4	③
D1903		C-4	③
D1904	E-10		③
D1905	E-6		③
D1906	D-6		③

TRANSISTOR	L	R	*
Q001	A-2		②
Q002		C-10	①
Q003	A-9		②
Q004	A-1		②
Q005	B-9		②
Q006	E-1		②
Q007	B-4		②
Q008	C-1		②
Q009	C-1		②
Q010	E-2		②
Q011	C-2		②
Q012	C-2		②
Q013		C-9	①
Q014	E-2		②
Q015	E-1		②
Q016	E-2		②
Q017	E-2		②
Q018	E-1		②
Q019	E-1		②
Q020	F-1		②
Q021	F-2		②
Q022	F-2		②
Q023	F-2		②
Q024	B-4		②
Q151		B-5	①
Q152		B-6	①
Q153	C-5		②
Q205		G-9	①
Q217	G-3		②
Q218	E-2		②
Q219	E-2		②
Q220	E-2		②
Q221		F-7	①
Q222	F-4		②
Q223		G-9	①
Q224		G-9	①
Q225	G-3		②
Q226	C-6		②
Q227		D-5	①
Q228	D-6		②
Q229	D-2		②
Q230	F-2		②
Q231	F-2		②
Q232	E-3		②
Q301	D-3		②
Q302	D-3		②
Q303	D-3		②
Q304	E-3		②
Q305		D-6	①
Q306	C-5		②
Q401		K-4	①
Q402		K-4	①
Q403		L-4	①
Q404		L-4	①
Q408		K-3	①
Q409		K-3	①
Q410		K-4	①
Q411		K-4	①
Q801	I-2		②
Q802	I-2		②
Q803	J-2		②
Q804	I-2		②
Q805	J-2		②
Q806		I-9	①
Q807		H-9	①
Q808		H-9	①
Q809		H-9	①
Q811	H-2		②
Q812	H-2		②
Q813	H-2		②
Q814	K-4		②
Q1101		F-2	①
Q1102	H-8		②
Q1103	G-9		②
Q1104	G-9		②
Q1105		G-2	①
Q1106		K-2	①
Q1107	K-10		②
Q1108	F-9		②
Q1109	F-9		②
Q1110	G-9		②
Q1111	K-10		②
Q1112	G-9		②
Q1113	G-9		②
Q1114	K-10		②
Q1115	F-9		②
Q1116	F-9		②
Q1117	F-9		②
Q1118	H-9		②
Q1119	G-9		②
Q1121	K-9		②
Q1122	G-9		②
Q1124	G-9		②
Q1125	H-9		②
Q1601	G-1		②
Q1602		F-10	①
Q1603	G-2		②
Q1701	G-7		②
Q1702		G-5	①
Q1703	G-6		②
Q1704	F-8		②
Q1705	F-8		②
Q1706		F-3	①
Q1707		F-3	①
Q1708	F-8		②
Q1709	F-8		②
Q1901	C-6		②
Q1902	C-7		②
Q1903	D-7		②
Q1904		D-2	①
Q1905	D-7		②
Q1906		E-2	①
Q1907	D-6		②
Q1908	D-10		②
Q1909	E-9		②
Q1910	E-10		②
Q1911	E-10		②
Q1913		E-5	①
Q1914		E-3	①
Q1915	E-6		②
Q1916	E-9		②
Q1917	E-9		②
Q1918	E-8		②
Q1920	E-9		②

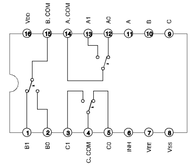
IC	L	R
IC001	B-1	
IC002	B-2	
IC004	B-2	
IC206	F-3	
IC301	D-6	
IC403	J-7	
IC404	K-8	
IC406	L-7	
IC681	J-6	J-5
IC682	I-6	I-5
IC801	I-4	
IC802	J-2	
IC803	J-4	
IC804	J-2	
IC805	H-3	
IC806	I-2	
IC807	K-3	
IC808	J-3	
IC809	J-3	
IC810	I-4	
IC811	I-4	
IC812	J-3	
IC814	H-2	
IC815	L-4	
IC816	K-4	
IC817	K-5	
IC818	K-2	
IC819	L-2	
IC820	L-3	
IC821	L-3	
IC822	L-4	
IC823	L-4	
IC824	L-5	
IC1101	H-8	
IC1601	F-1	
IC1602	G-1	
IC1701	H-6	H-5
IC1702	F-7	
IC1901	C-7	
IC1902	D-9	
IC1903	D-8	
IC1904	E-6	
IC1905	E-7	

L ; component side
R ; conductor side

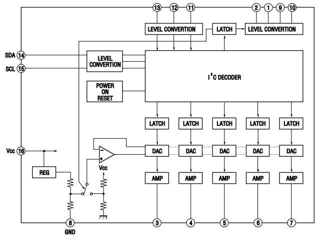
A (3/3) BOARD : IC1902 CXA2019AQ-T4


ADRS
SDA
SCL
IREF
H SYNC
J GND
J Vcc
AFC
CERA
SCP
H TIM
V SYNC
V HOLD
V TIM
V2 OUT
U2 OUT
Y2 OUT
I²C BUS DECORDER
IREF
H.SYNC SEP
PHASE DET.
32fH VCO
1/32
2fH
H.DRIVE
V.SYNC SEP
V COUNT DOWN
AFC
HLOCK
C MODE
50/60
V2 PED
V2 DRIVE
U2 PED
U2 DRIVE
Y2 DRIVE
ABL CENT
ABL
ABLFILIN
Y2 IN
U2 IN
V2 IN
CP IN
CV/YC
SUB CONT
SECAM
TRAP ON
DELAY
PRE OVER
SHP f0
SHARPNESS
DC TRAN
CVBS/Y IN
CIN
VIDEO SW
TRAP
CLAMP
AUTO PEDESTAL
Y DRIVE
U PED
V PED
SGND2
Y OUT
U OUT
V OUT
SUB COLOR
ACC
ACC DET.
TOT
TOT ON
BST AMP
DELAY
COLOR KILLER
PHASE DET.
SUB HUE
HUE
NT/PAL
PAL ID
F.F
ID AXIS
DEM AXIS
CHROMA DET.
COLOR
DET SW
EXT COLOR
KILLER
S GND
SECAM
LPF
CHROMA VCO
PHASE SHIFT
4.43/3.58 SW
X'TAL PIN
SECAM REF
SVcc
APC
X 443/358
X 358
X NTSC
A PED
– (B_Y) OUT
– (R_Y) OUT
– (B_Y) IN
– (R_Y) IN

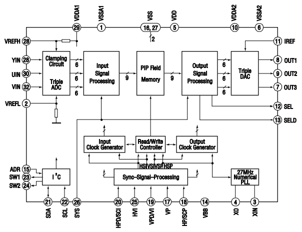
A (3/3) BOARD : IC1903 BU4053BCF-T2


VDD
B. COM
A. COM
A1
A0
A
B
C
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
B1
B0
C1
C. COM
C0
INH
VEE
VSS

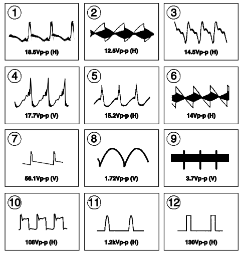
A (3/3) BOARD : IC1904 CXA1315M-T4


LEVEL CONVERTION
LATCH
SDA
SCL
LEVEL CONVERTION
POWER ON RESET
I²C DECODER
LATCH
DAC
AMP
Vcc
REG
GND

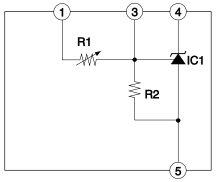
A (3/3) BOARD : IC1905 SDA9288


VDDA1
VSSA1
VSS
VDD
VDDA2
VSSA2
VREFH
YIN
UIN
VIN
VREFL
Clamping Circuit
Triple ADC
Input Signal Processing
PIP Field Memory
Output Signal Processing
Triple DAC
IREF
OUT1
OUT2
OUT3
SEL
SELD
Input Clock Generator
Read/Write Controller
Output Clock Generator
HSIN/VSIN/HSP
Sync-Signal-Processing
27MHz Numerical PLL
ADR
SW1
SW2
I²C
SDA
SCL
STS
HPDI/DO
HPI
VPDI/VI
VP
HPSCP
VBB
XO
XIN

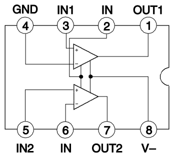
• G BOARD WAVEFORMS

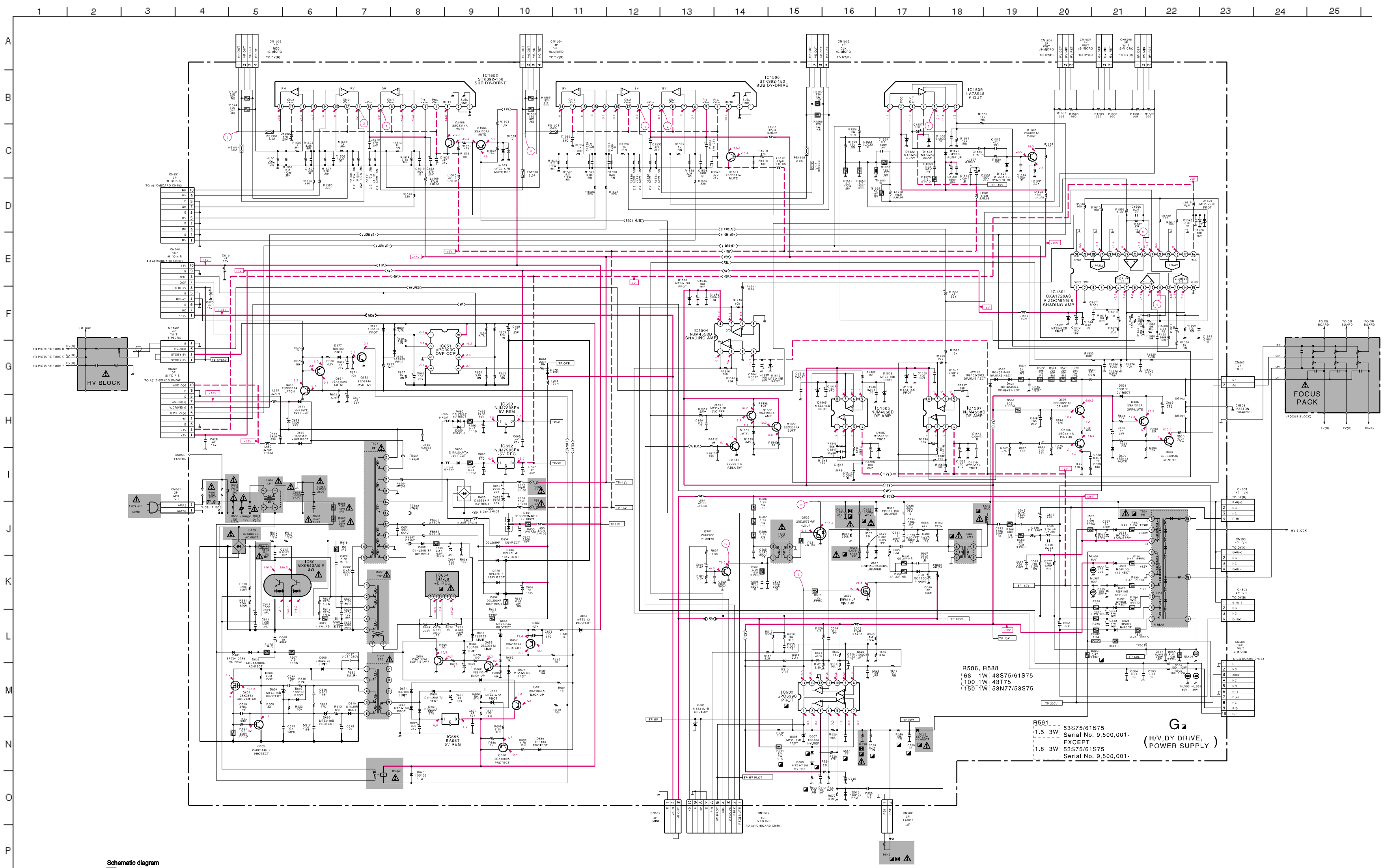


G BOARD : IC654 DM-58


1
3
4
R1
IC1
R2
5

G BOARD : IC651 µPC393C


GND
IN1
IN
OUT1
4
3
2
1
5
6
7
8
IN2
IN
OUT2
V–


IC1502
STK392-150
SUB DY-DRIVE
IC1506
STK392-150
SUB DY-DRIVE
IC1509
LA78045
V OUT
IC1501
CXA1726AS
V ZOOMING &
SHADING AMP
IC1504
NJM4558D
SHADING AMP
IC1505
NJM4558D
DF AMP
IC1507
NJM4558D
DF AMP
IC651
µPC393C
OVP OCP
IC653
NJM7805FA
5V REG
IC652
NJM7905FA
-5V REG
IC654
DM-58
-B REG
IC655
BA05T
5V REG
IC601
MX0842AB-T
SW
IC507
µPC393C
PROT
HV BLOCK
FOCUS
PACK
TP 135V
TP 12V
TP 200V
TP ABL
CN503
10P
WHT
:S-MICRO
TO CG BOARD CN734
E
NC
200V
NC
NC
H(-)
H(+)
NC
R/S
B/S

R586, R588

68	1W	48S75/61S75
100	1W	43T75
150	1W	53N77/53S75

R591

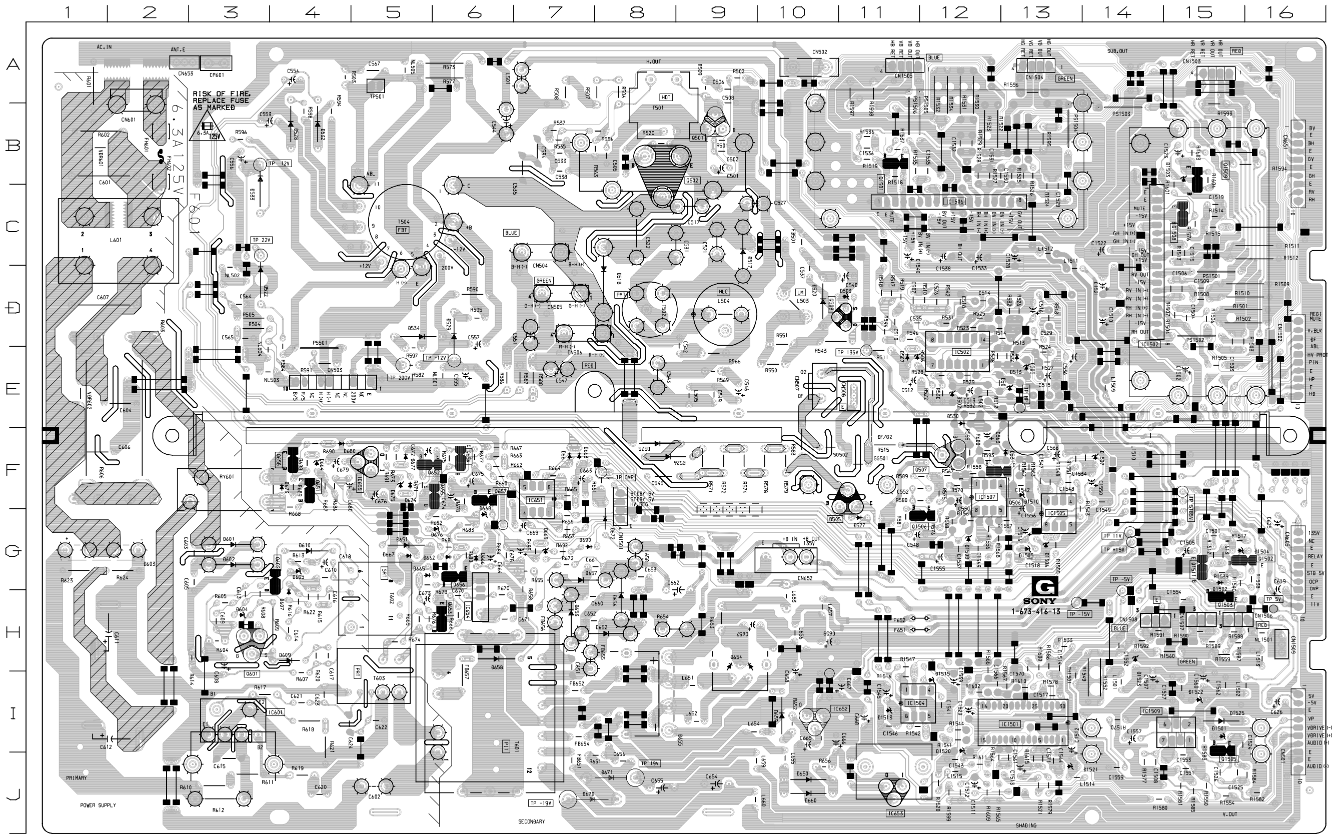
1.5	3W	53S75/61S75 Serial No. 9,500,001-
1.8	3W	EXCEPT 53S75/61S75 Serial No. 9,500,001-

G ◪
(H/V,DY DRIVE,
POWER SUPPLY)

Schematic diagram
G board →

G [H/V, DY DRIVE, POWER SUPPLY]

– G Board –


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
RISK OF FIRE,
REPLACE FUSE
AS MARKED
6.3A125V
F601
G
SONY
1-673-416-13
PRIMARY
POWER SUPPLY
SECONDARY
SHADING
V.OUT
SUB.OUT

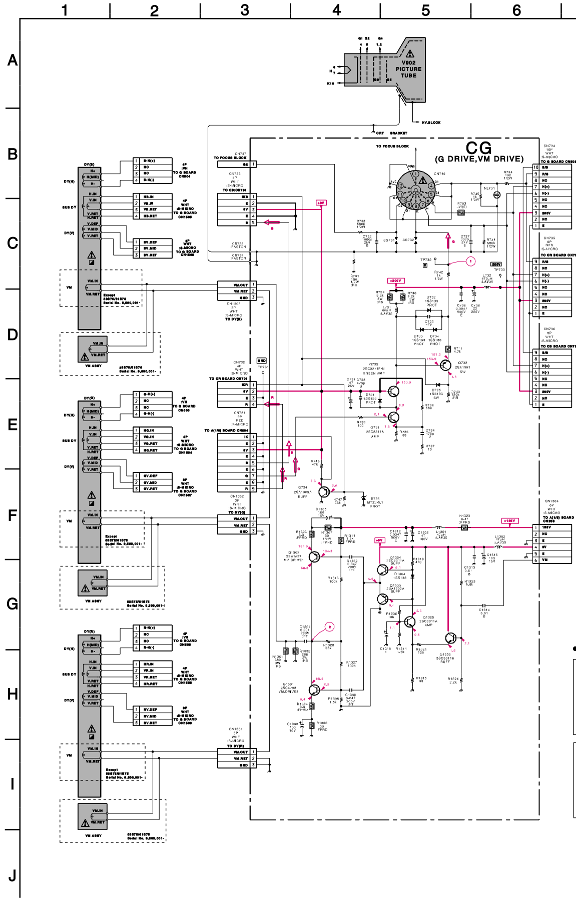
G BOARD

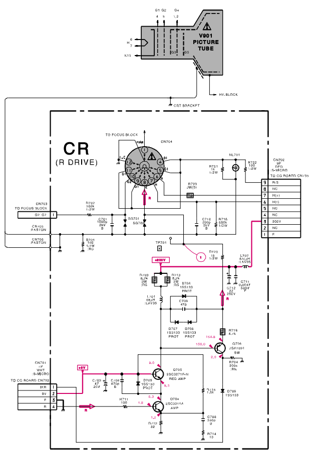
DIODE	
D501	E-13
D505	E-13
D506	E-11
D507	E-11
D513	E-13
D517	C-9
D518	D-8
D520	D-10
D522	D-3
D525	F-8
D526	F-8
D528	B-4
D529	D-6
D530	E-12
D531	F-13
D532	B-4
D533	B-6
D534	D-5
D601	G-3
D602	G-3
D603	G-2
D604	H-3
D605	G-4
D607	H-4
D609	H-4
D610	G-4
D651	G-5
D652	H-8
D653	H-7
D654	H-9
D655	I-8
D656	H-8
D657	G-7
D658	H-6
D659	I-10
D660	J-10
D661	F-7
D662	G-6
D663	F-7
D664	F-4
D665	G-5
D666	G-6
D667	G-5
D668	G-6
D669	G-7
D670	J-7
D671	J-8
D673	F-4
D674	F-5
D675	F-5
D676	G-6
D677	F-5
D680	F-4
D1501	I-15
D1503	B-15
D1504	G-15
D1505	G-13
D1506	G-13
D1507	F-14
D1509	G-12
D1510	F-13
D1513	I-11
D1515	I-12
D1520	J-12
D1521	J-13
D1522	I-15
D1523	H-14
D1525	I-15

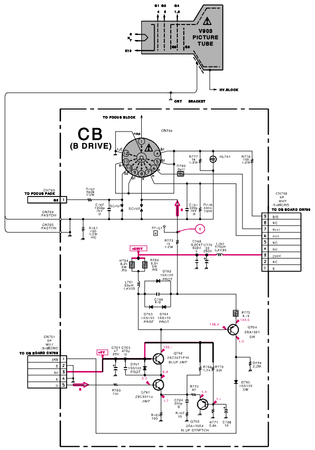
TRANSISTOR	
Q501	B-9
Q502	B-8
Q503	D-11
Q505	F-11
Q506	F-12
Q507	F-12
Q601	H-3
Q602	G-4
Q651	F-4
Q652	F-5
Q653	H-6
Q654	F-6
Q655	F-5
Q656	G-6
Q657	F-6
Q658	F-4
Q1501	B-11
Q1502	G-15
Q1503	H-15
Q1505	I-15
Q1506	G-11
Q1508	C-15
Q1509	B-15
Q1511	G-15

IC	
IC502	E-12
IC601	I-3
IC651	F-7
IC652	I-10
IC653	J-11
IC654	H-6
IC655	F-5
IC1501	I-13
IC1502	D-14
IC1504	I-11
IC1505	G-13
IC1506	C-12
IC1507	F-12
IC1509	I-15

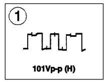
Schematic diagrams
CG CR CB board ➡


1
2
3
4
5
6
A
B
C
D
E
F
G
H
I
J
V902
PICTURE
TUBE
CG
(G DRIVE,VM DRIVE)
TO FOCUS BLOCK

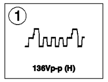

V901
PICTURE
TUBE
CR
(R DRIVE)
TO FOCUS BLOCK


V903
PICTURE
TUBE
CB
(B DRIVE)
TO FOCUS BLOCK

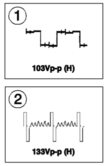
• CR BOARD WAVEFORM



• CB BOARD WAVEFORM

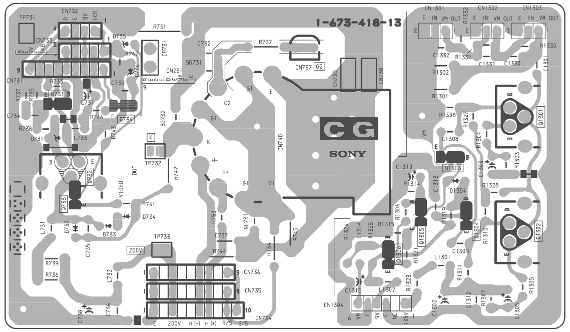


• CG BOARD WAVEFORMS

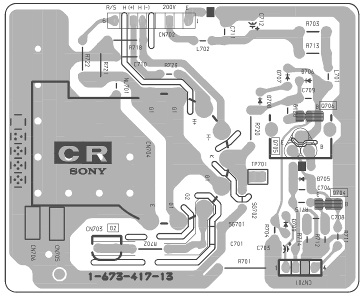


CG [G DRIVE, VM DRIVE] **CR** [R DRIVE] **CB** [B DRIVE]

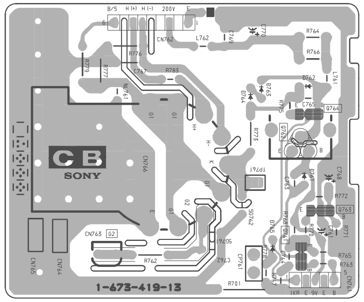
– CG Board –

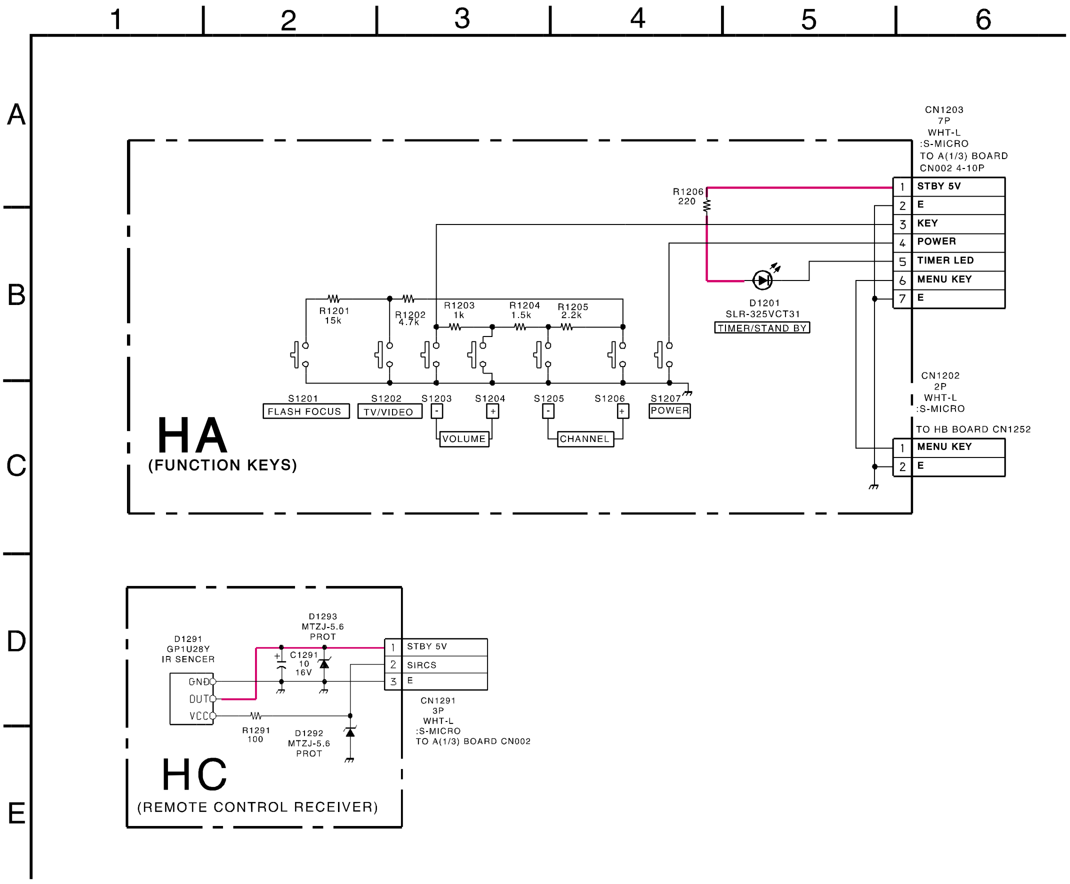

1-673-418-13
CG
SONY

– CR Board –


CR
SONY
1-673-417-13

– CB Board –

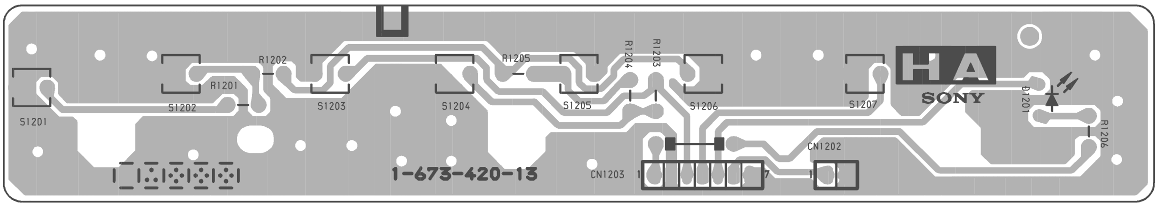

CB
SONY
1-673-419-13



1
2
3
4
5
6
A
B
C
D
E
CN1203
7P
WHT-L
:S-MICRO
TO A(1/3) BOARD
CN002 4-10P
R1206
220
1 STBY 5V
2 E
3 KEY
4 POWER
5 TIMER LED
6 MENU KEY
7 E
D1201
SLR-325VCT31
TIMER/STAND BY
R1201
15k
R1202
4.7k
R1203
1k
R1204
1.5k
R1205
2.2k
S1201
FLASH FOCUS
S1202
TV/VIDEO
S1203
-
S1204
+
VOLUME
S1205
-
S1206
+
CHANNEL
S1207
POWER
CN1202
2P
WHT-L
:S-MICRO
TO HB BOARD CN1252
1 MENU KEY
2 E
HA
(FUNCTION KEYS)
D1293
MTZJ-5.6
PROT
D1291
GP1U28Y
IR SENCER
C1291
10
16V
GND
OUT
VCC
R1291
100
D1292
MTZJ-5.6
PROT
1 STBY 5V
2 SIRCS
3 E
CN1291
3P
WHT-L
:S-MICRO
TO A(1/3) BOARD CN002
HC
(REMOTE CONTROL RECEIVER)

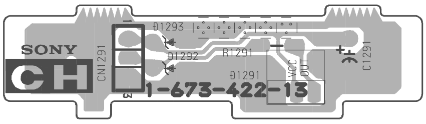
HA [FUNCTION KEK] **HC** [RIMOTE CONTROL RECEIVER]

– HA Board –

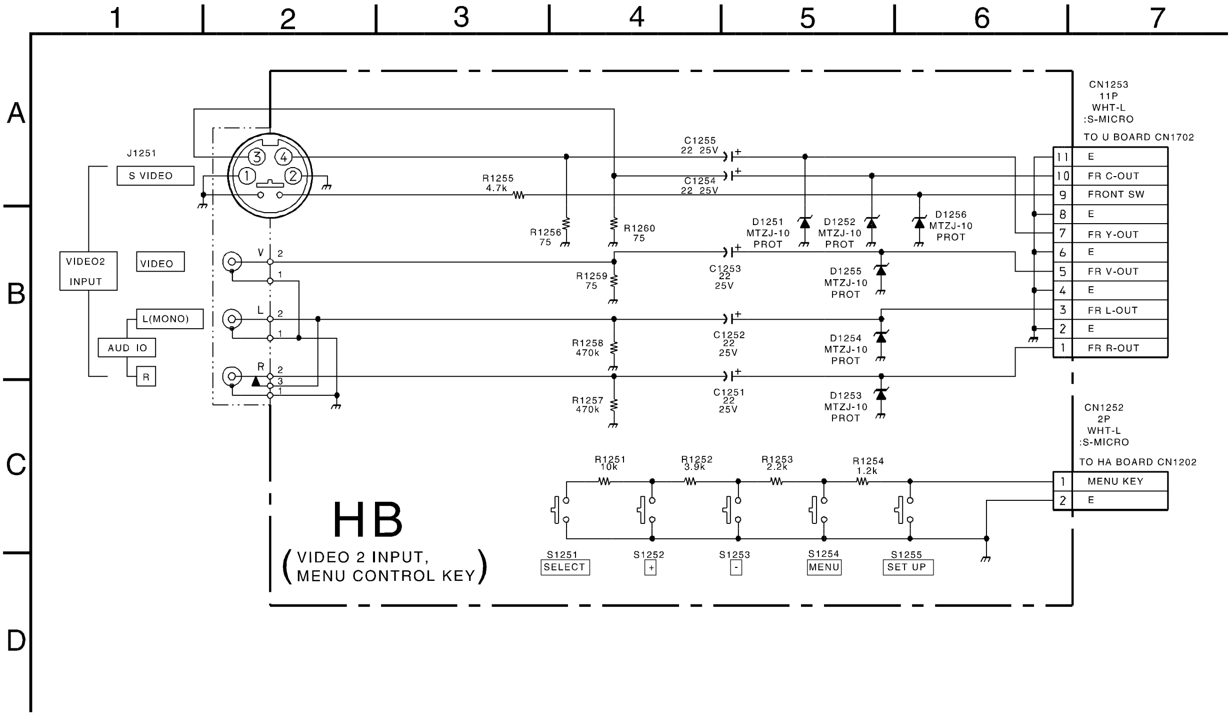


R1202
R1201
S1201
S1202
S1203
S1204
R1205
S1205
R1204
R1203
S1206
S1207
HA
SONY
D1201
R1206
CN1202
CN1203
1
7
1-673-420-13

– HC Board –

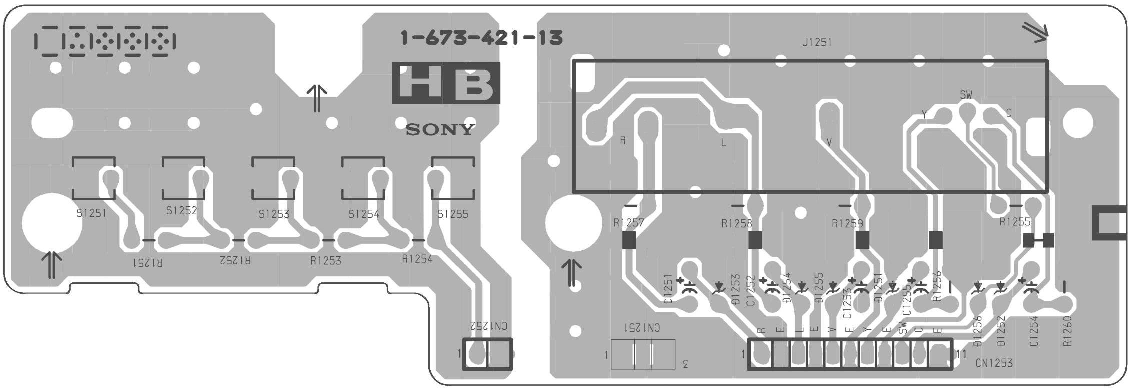


SONY
CH
CN1291
D1293
D1292
R1291
D1291
C1291
3
1-673-422-13


1
2
3
4
5
6
7
A
B
C
D
J1251
S VIDEO
VIDEO2 INPUT
VIDEO
L(MONO)
AUD IO
R
V
L
R
R1255 4.7k
R1256 75
R1260 75
R1259 75
R1258 470k
R1257 470k
C1255 22 25V
C1254 22 25V
C1253 22 25V
C1252 22 25V
C1251 22 25V
D1251 MTZJ-10 PROT
D1252 MTZJ-10 PROT
D1256 MTZJ-10 PROT
D1255 MTZJ-10 PROT
D1254 MTZJ-10 PROT
D1253 MTZJ-10 PROT
CN1253 11P WHT-L :S-MICRO
TO U BOARD CN1702
11 E
10 FR C-OUT
9 FRONT SW
8 E
7 FR Y-OUT
6 E
5 FR V-OUT
4 E
3 FR L-OUT
2 E
1 FR R-OUT
CN1252 2P WHT-L :S-MICRO
TO HA BOARD CN1202
1 MENU KEY
2 E
R1251 10k
R1252 3.9k
R1253 2.2k
R1254 1.2k
HB
(VIDEO 2 INPUT, MENU CONTROL KEY)
S1251 SELECT
S1252 +
S1253 -
S1254 MENU
S1255 SET UP

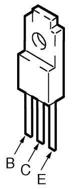
HB [VIDEO-2 INPUT, MENU CONTROL KEYS]

– HB Board –

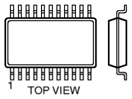

1-673-421-13
HB
SONY
J1251
R
L
V
Y
SW
C
S1251
S1252
S1253
S1254
S1255
R1251
R1252
R1253
R1254
CN1252
R1257
R1258
R1259
R1255
C1251
D1253
C1252
D1254
D1255
C1253
D1251
C1255
R1256
D1256
D1252
C1254
R1260
CN1251
CN1253
R E L E V E Y E SW C E
1
3
11

6-5. SEMICONDUCTORS

BA05T

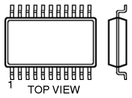


BH3868FS-E2
SDA9288XE



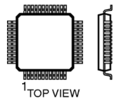
32pin

BU4053BCF-T2
CXA1315M
UPD6376GS-E2



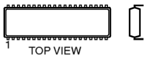
16pin

CM0006CF



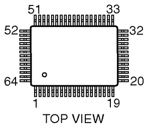
80pin

CXA1726AS

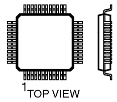


30pin

CXA2079Q
CXA2147Q
CXP750010-026Q
CXP86324-024Q

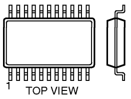

51
33
52
32
64
20
1
19
TOP VIEW

CXA2019AQ-T4



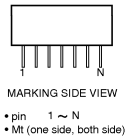
40pin

CXA2039M-T6

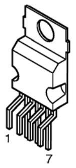


24pin

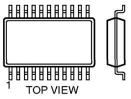
DM-58


1
N
MARKING SIDE VIEW
• pin 1 ∼ N
• Mt (one side, both side)

LA78045

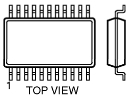


M24C08-MN6T
NJM2533M(TE2)
NJM4558M-T2
ST24E16FM6TR
TC7W66FU(TE12R)
UPCM4570G2



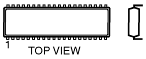
8pin

MC74HC04AF
MC74HC32AF
NJM2058M-TE2
TC74HC08AF(EL)
TLC2932IPW



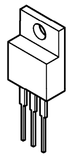
14pin

NJM4558D
UPC393C

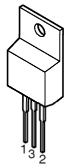


8pin

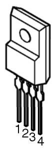
NJM7805FA



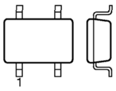
NJM7905FA



PQ09RD11

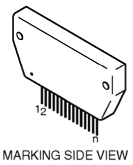


PST9143NL

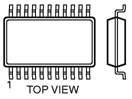


5pin

STK392-150

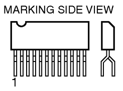

1
2
n
MARKING SIDE VIEW

TC90A53F



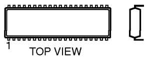
28pin

TDA7265


MARKING SIDE VIEW
1

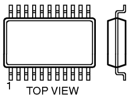
11pin

UPC339C



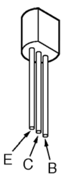
14pin

Z8613012SSC-00TR
Z8622912SSC-00TR



18pin

2SA1091-O



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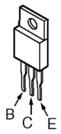
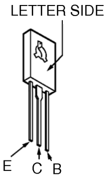
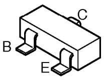
2SC4793
IRF614



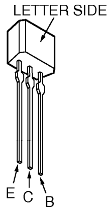
2SC2611
2SC2688-(5)LK


LETTER SIDE
E
C
B

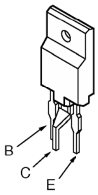
2SA1162-G
2SD601A-Q
DTC143TKA-T146
DTC144EKA-T146



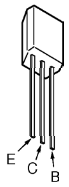
2SA1175-HFE
2SA1309A
2SC2785-HFE
2SC3311A


LETTER SIDE
E
C
B

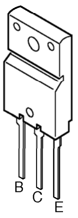
2SC5022-02



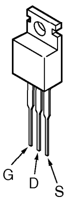
2SD2144S-UVW
2SD2144S-V



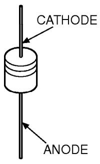
2SD2578-RF



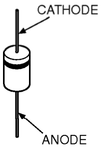
2SK2663



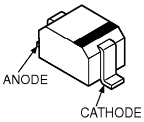
11ES2
D1N20R
D1NL20U
D2L20U
MTZJ-10B
MTZJ-13
MTZJ-15B
MTZJ-2.7A
MTZJ-3.9B
MTZJ-4.7C
MTZJ-5.1B
MTZJ-7.5B
MTZJ-T-77-15B
MTZJ-T-77-18B
MTZJ-T-77-24A
MTZJ-T-77-5.6B
MTZJ-T-77-6.2B
MTZJ-T-77-8.2B


CATHODE
ANODE

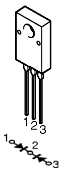
1SS133-T17
D3S6M-F
ERA22-08
ERC04-06SE
ERC06-15S
ERC91-02


CATHODE
ANODE

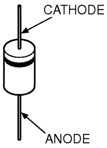
1SS355TE-17
UDZ-TE17-10B
UDZ-TE-17-22B
UDZ-TE17-33B
UDZS-TE17-5.6B
UDZS-TE17-8.2B


ANODE
CATHODE

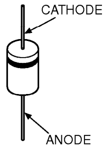
D10SC6M-4012



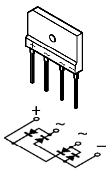
D1NL20U


CATHODE
ANODE

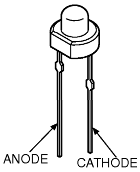
D1NS6
EL1Z
GP08DPKG23
RGP02-20EL-6394
RGP10GPKG23
RGP15J-6040G23


CATHODE
ANODE

D4SBS4-F



SLR-325VCT31


ANODE
CATHODE

SECTION 7

EXPLODED VIEWS

NOTE:

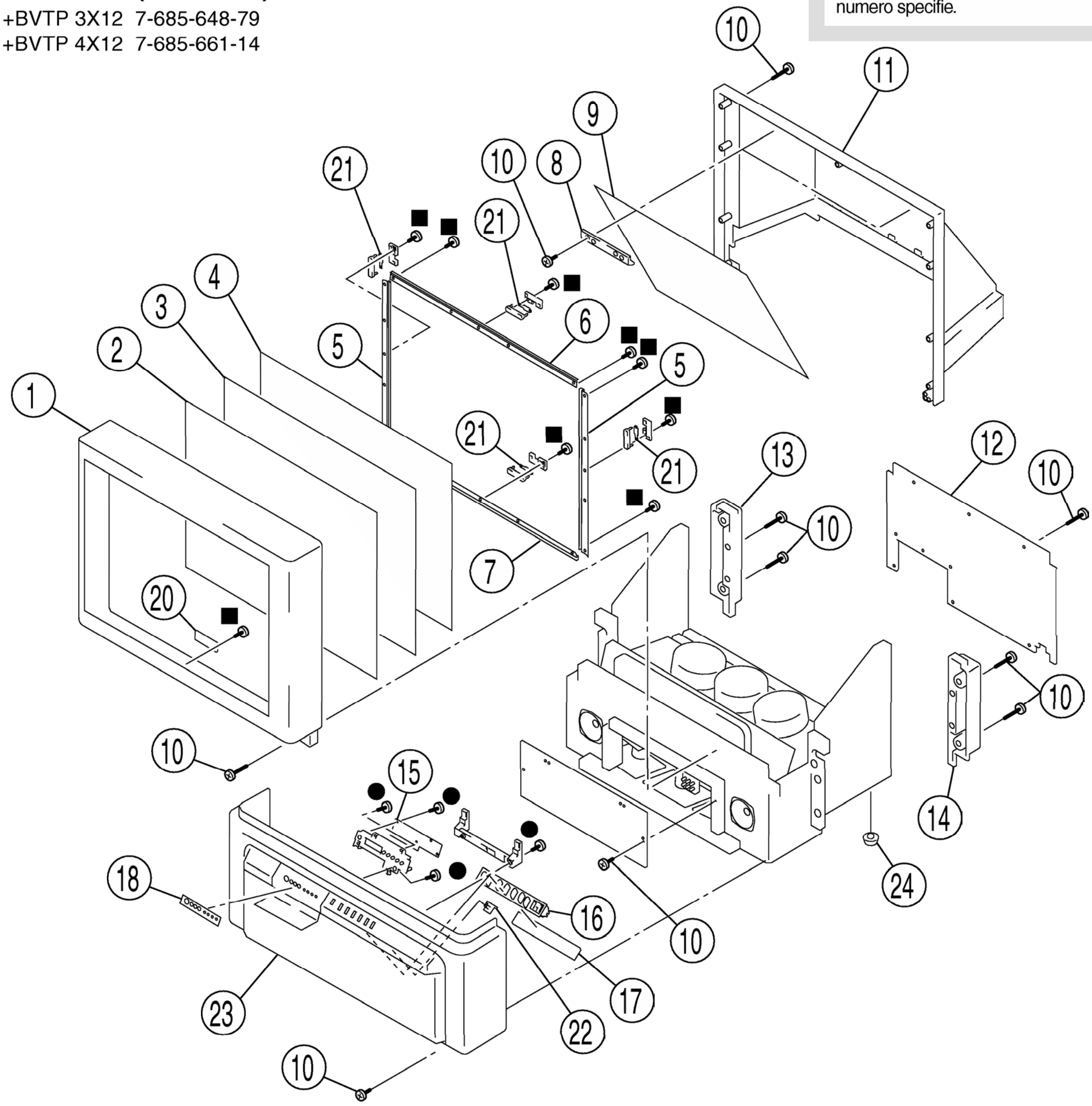
- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

7-1. COVER (KP-43T75)

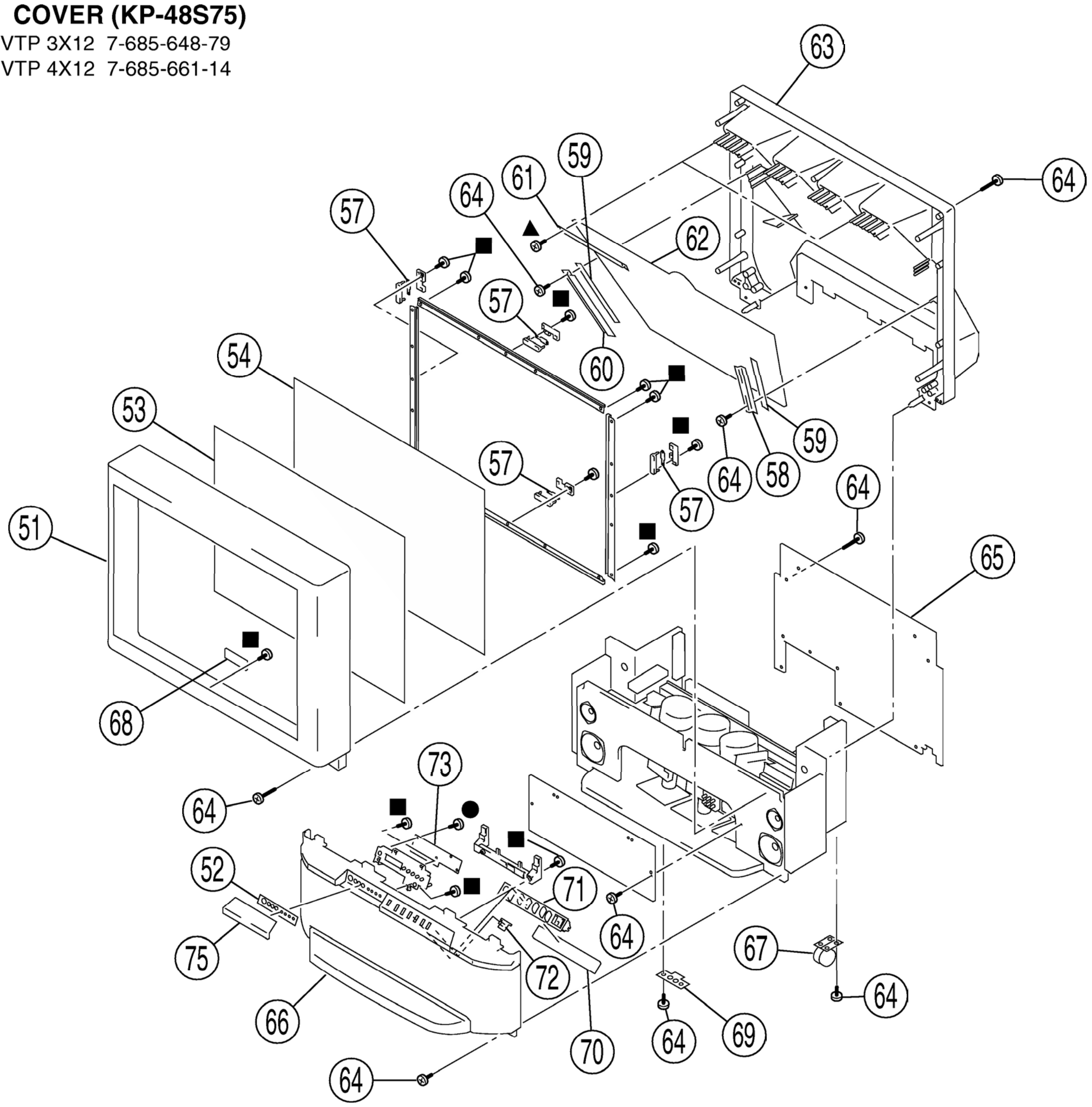
● : +BVTP 3X12 7-685-648-79
■ : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4036-892-1	BEZNET ASSY	
2	4-070-286-11	SCREEN (43), CONTRAST	
3	4-070-284-11	PLATE(L), DIFFUSION	
4	4-070-285-11	PLATE(43F), DIFFUSION	
5	* 4-070-332-31	HOLDER (L), SCREEN (NC)	
6	* 4-070-333-21	HOLDER (S), SCREEN (NC)	
7	* 4-070-333-31	HOLDER (S), SCREEN (NC)	
8	* 4-069-686-01	HOLDER, MIRROR	
9	4-077-051-01	MIRROR, REFLECTION (43T)	
10	4-378-522-31	SCREW (4X20), TAPPING	
11	* 4-069-696-03	COVER (43), MIRROR	
12	* 4-071-387-02	BOARD, REAR	
13	4-069-703-01	CAP(L), CONTROL	
14	4-069-704-01	CAP(R), CONTROL	
15	* A-1372-620-A	HB BOARD, COMPLETE	
16	4-069-681-21	BUTTON, MULTI	
17	* A-1372-619-A	HA BOARD, COMPLETE	
18	4-072-529-01	LABEL(2), SPEAKER GRILLE	
20	* A-1372-618-A	HC BOARD, COMPLETE	
21	* A-1390-933-A	S BOARD, COMPLETE	
22	4-069-682-01	GUIDE, LED	
23	* X-4036-893-2	PANEL ASSY, CONTROL	
24	4-057-611-01	FOOT	

7-2. COVER (KP-48S75)

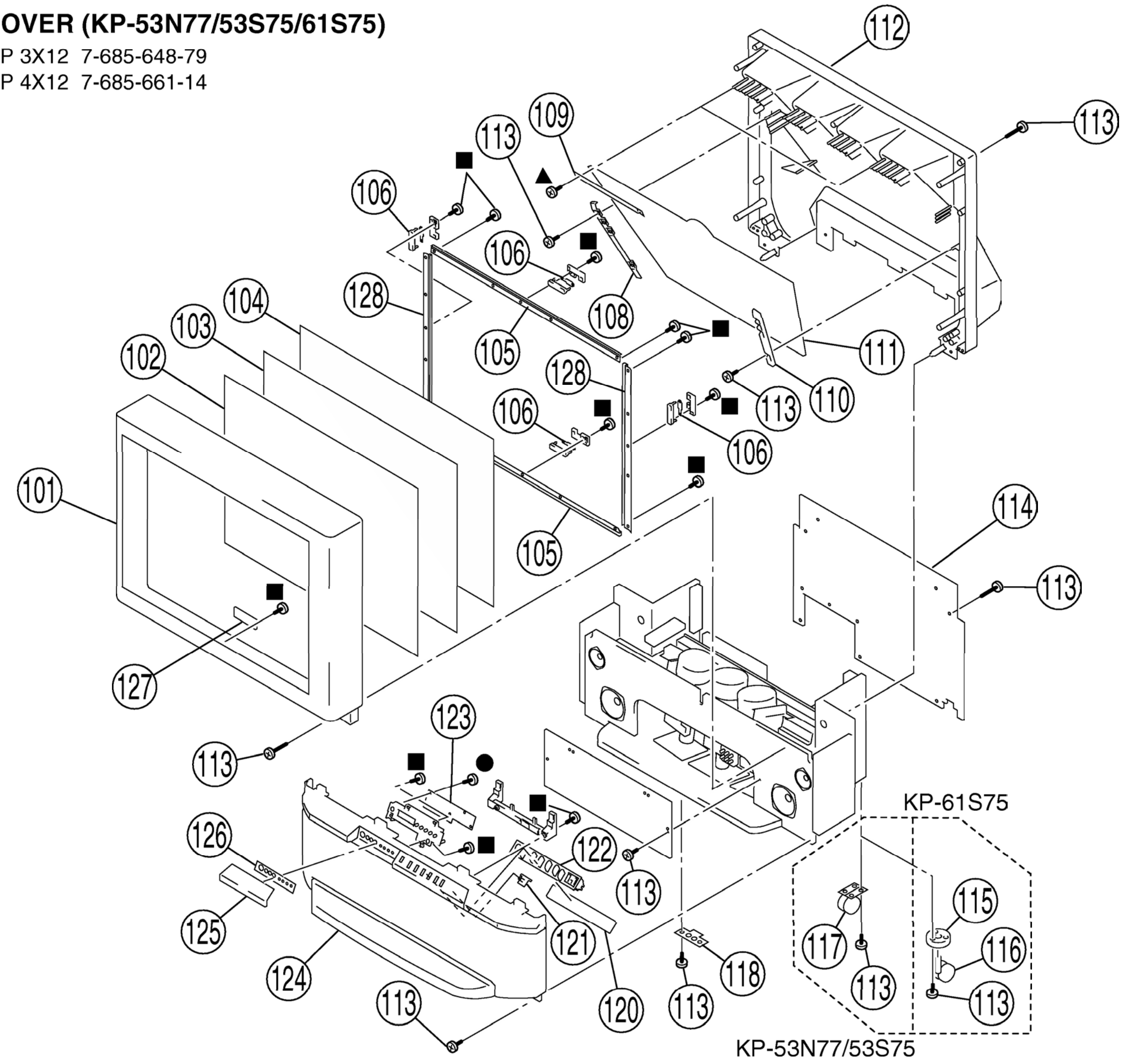
● : +BVTP 3X12 7-685-648-79
■ : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4036-838-1	BEZNET ASSY (48V)	
52	4-072-529-01	LABEL(2), SPEAKER GRILLE	
53	4-070-280-11	PLATE (L), DIFFUSION	
54	4-058-455-11	PLATE (F), DIFFUSION	
57	* A-1390-933-A	S BOARD, COMPLETE	
58	* 4-051-789-02	HOLDER, MIRSD (R)	
59	* 4-049-098-01	CUSHION	
60	* 4-051-790-02	HOLDER, MIRSD (L)	
61	* 4-070-345-21	HOLDER (TOP), MIRROR	
62	4-071-048-02	MIRROR (48), REFLECTION	
63	* 4-057-610-01	COVER, MIRROR	
64	4-378-522-31	SCREW (4X20), TAPPING	
65	* 4-071-126-01	BOARD, REAR (48)	
66	X-4036-756-1	GRILLE ASSY (53S), SPEAKER	75
67	4-040-755-01	CASTER (DIA. 30)	
68	* A-1372-618-A	HC BOARD, COMPLETE	
69	4-048-175-01	FOOT, PLASTIC	
70	* A-1372-619-A	HA BOARD, COMPLETE	
71	4-069-681-11	BUTTON, MULTI	
72	4-069-682-01	GUIDE, LED	
73	* A-1372-620-A	HB BOARD, COMPLETE	
75	4-069-659-01	DOOR(S), CONTROL	

7-3. COVER (KP-53N77/53S75/61S75)

● : +BVTP 3X12 7-685-648-79
■ : +BVTP 4X12 7-685-661-14



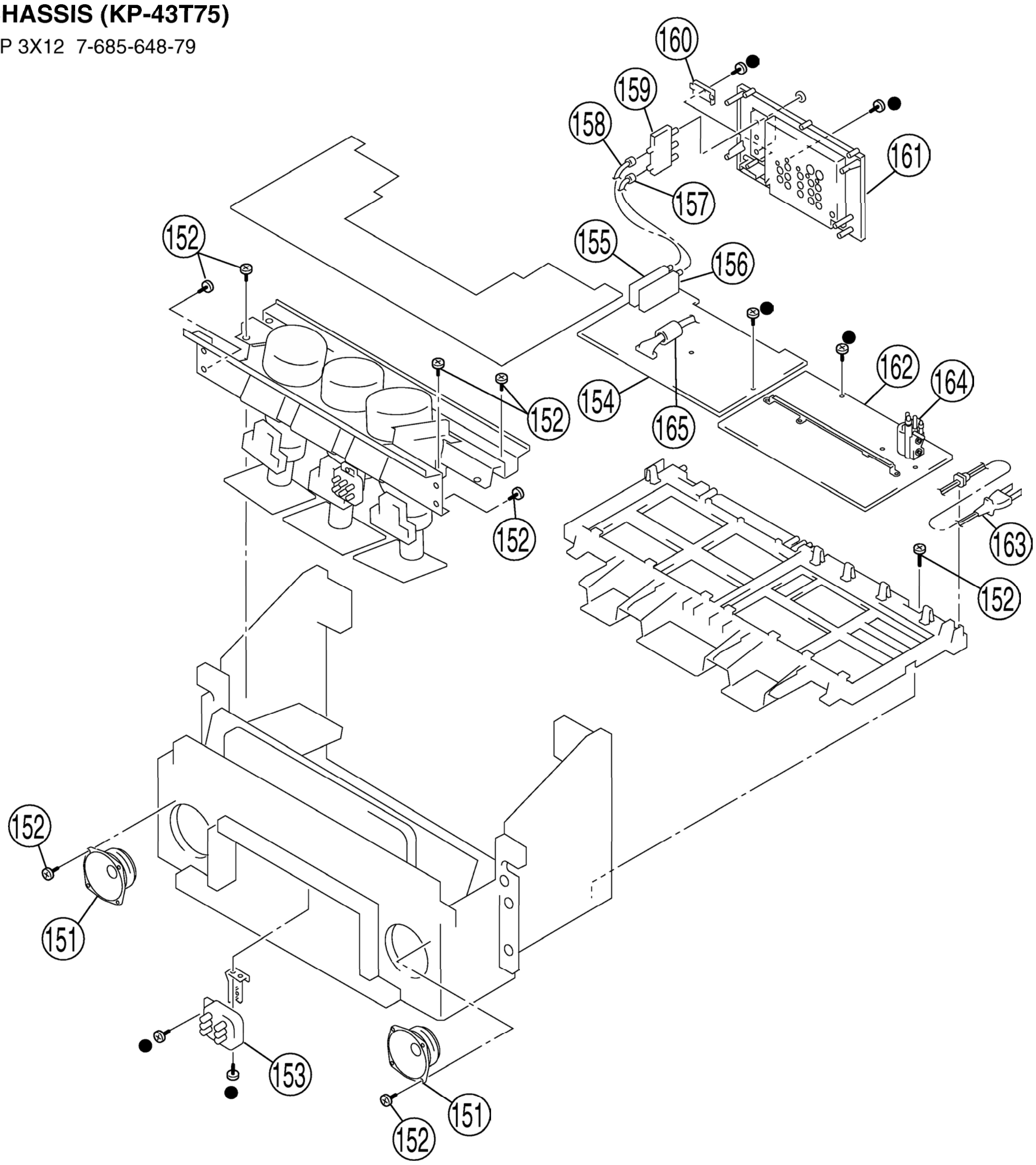
REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4036-755-1	BEZNET ASSY (53S) (53N77)	
	X-4036-807-1	BEZNET ASSY (61V) (61S75)	
	X-4036-809-1	BEZNET ASSY (53V) (53S75)	
102	4-071-582-01	SCREEN (53), CONTRAST (53N77)	
103	4-070-281-11	PLATE (L), DIFFUSION (53S75)	
	4-070-283-11	PLATE (L), DIFFUSION (61S75)	
	4-070-525-11	PLATE (L), DIFFUSION (53N77)	
104	4-066-082-11	PLATE (F), DIFFUSION (61S75)	
	4-070-602-11	PLATE (F), DIFFUSION (53N77,53S75)	
105	* 4-070-328-11	HOLDER (L), SCREEN (YC) (53N77)	
	* 4-070-331-11	HOLDER (L), SCREEN (NC) (53S75)	
	* 4-070-332-01	HOLDER (L), SCREEN (NC) (61S75)	
106	* A-1390-933-A	S BOARD, COMPLETE	
108	* 4-069-687-01	HOLDER (LS), MIRROR (53N77,53S75)	
	* 4-069-689-01	HOLDER (L), MIRROR (61S75)	
109	* 4-070-345-01	HOLDER (TOP), MIRROR (61S75)	
	* 4-070-345-11	HOLDER (TOP), MIRROR (53N77,53S75)	
110	* 4-069-688-01	HOLDER (RS), MIRROR (53N77,53S75)	
	* 4-069-690-01	HOLDER (R), MIRROR (61S75)	
111	4-070-344-01	MIRROR, REFLECTION (53N77,53S75)	
	4-070-922-01	MIRROR, REFLECTION (61S75)	
112	* 4-069-694-01	COVER, MIRROR (53N77,53S75)	
	* 4-070-922-01	COVER, MIRROR (61S75)	
113	4-378-522-31	SCREW (4X20), TAPPING	
114	* 4-070-342-01	BOARD (53), REAR (53N77/53S75)	
	* 4-070-920-02	BOARD, REAR (61S75)	
115	4-030-850-01	SOCKET, CASTER (61S75)	
116	4-039-546-01	CASTER (61S75)	
117	4-040-755-01	CASTER (DIA. 30) (EXCEPT 61S75)	
118	4-048-175-01	FOOT, PLASTIC	
120	* A-1372-619-A	HA BOARD, COMPLETE	
121	4-069-682-01	GUIDE, LED	
122	4-069-681-11	BUTTON, MULTI	
123	* A-1372-620-A	HB BOARD, COMPLETE	
124	X-4036-756-1	GRILLE ASSY (53S), SPEAKER (53S75)	125
	X-4036-875-1	PANEL ASSY, CONTROL (53S-STAR) (53N77)	125
	* X-4036-889-1	GRILLE (61S) ASSY, SPEAKER (61S75)	125
125	4-069-659-01	DOOR (S), CONTROL (53S75,61S75)	
	4-069-671-01	DOOR (V), CONTROL (53N77)	
126	4-072-529-01	LABEL(2), SPEAKER GRILLE	
127	* A-1372-618-A	HC BOARD, COMPLETE	
128	* 4-070-330-01	HOLDER (S), SCREEN (YC) (53N77)	
	* 4-070-333-01	HOLDER (S), SCREEN (NC) (53S75)	
	* 4-070-335-01	HOLDER (S), SCREEN (NC) (61S75)	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-4. CHASSIS (KP-43T75)

● : +BVTP 3X12 7-685-648-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
151	1-529-396-11	SPEAKER (10cm)	
152	4-378-522-31	SCREW (4X20), TAPPING	
153	⚠ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
154	* A-1298-864-A	A BOARD, COMPLETE	
155	8-598-431-00	TUNER, FSS BTF-WA411 (TU151)	
156	8-598-430-00	TUNER, FSS BTF-FA401 (TU152)	
157	* 1-557-056-31	CABLE, P-P	

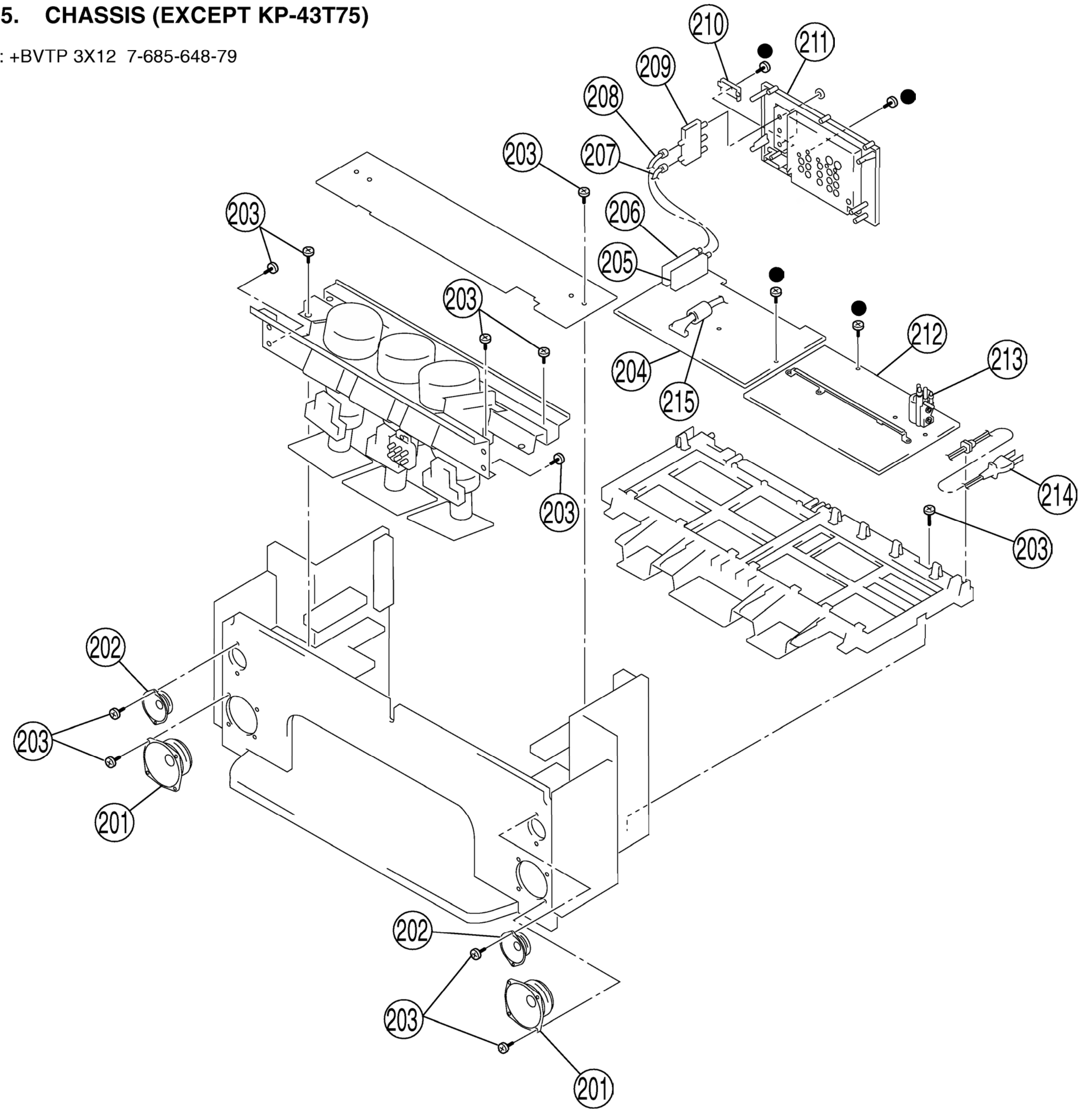
REF. NO.	PART NO.	DESCRIPTION	REMARK
158	1-556-945-21	CABLE, P-P	
159	⚠ 8-598-414-20	CHANGER, ANTENNA AS-2F	
160	4-069-675-01	CAP, TERMINAL BOARD	
161	4-069-674-11	TERMINAL BOARD	
162	* A-1316-475-A	G BOARD, COMPLETE	
163	⚠ 1-790-001-11	CORD, AC POWER (WITH CONNECTOR)	
164	⚠ 1-453-238-31	FLAYBACK TRANS ASSY (T504)	
165	1-500-021-11	CLAMP, SLEEVE FERRITE	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-5. CHASSIS (EXCEPT KP-43T75)

● : +BVTP 3X12 7-685-648-79



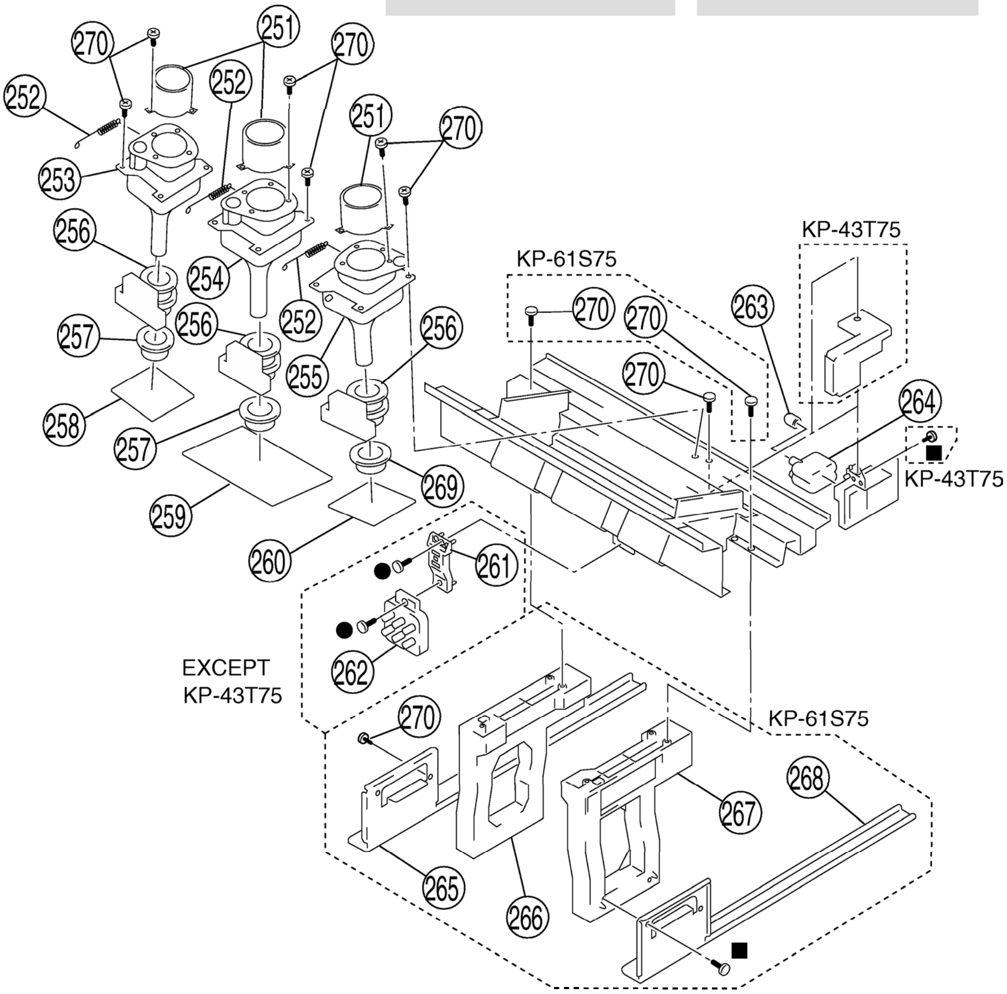
REF. NO.	PART NO.	DESCRIPTION	REMARK
201	1-529-396-11	SPEAKER (10cm) (EXCEPT 53N77)	
	1-529-401-11	SPEAKER (13cm) (53N77)	
202	1-529-403-11	SPEAKER (6.6cm) (53N77)	
203	4-378-522-31	SCREW (4X20), TAPPING	
204	* A-1298-864-A	A BOARD, COMPLETE (EXCEPT 53N77)	
	* A-1298-981-A	A BOARD, COMPLETE (53N77)	
205	8-598-430-00	TUNER, FSS BTF-FA401 (TU152)	
206	8-598-431-00	TUNER, FSS BTF-WA411 (TU151)	
207	* 1-557-056-31	CABLE, P-P	
208	1-556-945-21	CABLE, P-P	
209	⚠ 8-598-414-20	CHANGER, ANTENNA AS-2F	
210	4-069-675-01	CAP, TERMINAL BOARD	
211	4-069-674-11	TERMINAL BOARD	
212	* A-1316-437-A	G BOARD, COMPLETE (53N77,53S75)	
	* A-1316-471-A	G BOARD, COMPLETE (48S75,61S75)	
	* A-1316-498-A	G BOARD, COMPLETE (61S75 Serial No. 9,500,001-)	
	* A-1316-499-A	G BOARD, COMPLETE (53S75 Serial No. 9,500,001-)	
213	⚠ 1-453-238-31	FLAYBACK TRANS ASSY (T504)	
214	⚠ 1-790-001-11	CORD, AC POWER (WITH CONNECTOR) (48S75,61S75)	
	⚠ 1-790-130-11	CORD, AC POWER (WITH CONNECTOR) (53N77,53S75)	
215	1-500-021-11	CLAMP, SLEEVE FERRITE	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-6. PICTYRE TUBE

● : +BVTP 3X12 7-685-648-79
■ : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
251	4-040-131-21	LENS (LINNIT POINT 6) (61S75)	
	4-056-258-11	LENS (DELTA 78) (EXCEPT 61S75)	
252	4-057-007-01	SPRING, TENSION	(53S75/61S75 Serial No. 9,500,001-)
253	⚠ 8-733-571-15	CRT 07MXC2(R)(HEATER) (43T75)	
	⚠ 8-733-572-15	CRT 07MXC3(R)(HEATER)	(48S75,53N77,53S75)
	⚠ 8-733-573-15	CRT 07MXC4(R)(HEATER) (61S75)	
	⚠ A-1501-521-A	COUPLER ASSY, CRT (R)	(61S75 Serial No. 9,500,001-)
	⚠ A-1501-526-A	COUPLER ASSY, CRT (R)	(53S75 Serial No. 9,500,001-)
254	⚠ 8-733-570-15	CRT 07MXC2(G)(HEATER)	(EXCEPT 53S75/61S75 Serial No. 9,500,001-)
	⚠ A-1501-522-A	COUPLER ASSY, CRT (G)	(53S75/61S75 Serial No. 9,500,001-)
255	⚠ 8-733-574-15	CRT 07MAC2(B)(HEATER) (43T75)	
	⚠ 8-733-575-15	CRT 07MAC3(B)(HEATER)	(48S75,53N77,53S75)
	⚠ 8-733-576-15	CRT 07MAC4(B)(HEATER) (61S75)	
	⚠ A-1501-520-A	COUPLER ASSY, CRT (B)	(61S75 Serial No. 9,500,001-)
	⚠ A-1501-527-A	COUPLER ASSY, CRT (B)	(53S75 Serial No. 9,500,001-)
256	⚠ 1-451-496-11	DEFLECTION YOKE	(EXCEPT 53S75/61S75 Serial No. 9,500,001-)
	⚠ 1-451-496-21	DEFLECTION YOKE	(53S75/61S75 Serial No. 9,500,001-)
257	⚠ 1-451-469-21	COIL ASSY, VM	(53S75/61S75 Serial No. 9,500,001-)
	⚠ 1-452-790-21	NECK ASSY	(EXCEPT 53S75/61S75 Serial No. 9,500,001-)
258	* A-1331-922-A	CR BOARD, COMPLETE	
259	* A-1331-923-A	CG BOARD, COMPLETE	
260	* A-1331-924-A	CB BOARD, COMPLETE	
261	* 4-063-403-01	BRACKET, FOCUS PACK (EXCEPT 43T75)	
262	⚠ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	(FOCUS PACK) (EXCEPT 43T75)
263	4-373-137-01	CAP(Z), RUBBER (43T70)	
264	⚠ 8-598-955-30	BLOCK ASSY, HIGH-VOLTAGE	
265	4-070-916-01	STAY (R), CHASSIS (61S75)	
266	4-069-677-02	BOARD (L), SIDE (61S75)	
267	4-069-678-02	BOARD (R), SIDE (61S75)	
268	4-070-917-02	STAY (L), CHASSIS (61S75)	
269	⚠ 1-451-469-21	COIL ASSY, VM	(53S75/61S75 Serial No. 9,500,001-)
	⚠ 1-452-909-31	MAGNET ASSY, 4 POLE	(EXCEPT 53S75/61S75 Serial No. 9,500,001-)
270	4-052-894-01	SCREW (4X20), HEAD TAPPING	

SECTION 8

ELECTRICAL PARTS LIST

The components identified by shading and mark ⚠ are critial for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

When indicating parts by reference number, please include the board name.

- The components identified by in ⧓ this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION				REMARK
*	A-1298-864-A	A BOARD, COMPLETE (EXCEPT 53N77)				
		**********************				
*	A-1298-981-A	A BOARD, COMPLETE (53N77)				
		**********************				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C002	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	
C003	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C004	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	
C005	1-126-935-11	ELECT	470μF	20%	6.3V	
C006	1-126-960-11	ELECT	1μF	20%	50V	
C015	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	
C016	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	
C039	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C040	1-126-916-11	ELECT	1000μF	20%	6.3V	
C041	1-163-229-11	CERAMIC CHIP	12pF	5%	50V	
C042	1-126-960-11	ELECT	1μF	20%	50V	
C044	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	
C072	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C080	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C081	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C082	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C085	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C086	1-163-229-11	CERAMIC CHIP	12pF	5%	50V	
C087	1-126-964-11	ELECT	10μF	20%	50V	
C091	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C093	1-126-933-11	ELECT	100μF	20%	16V	
C094	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C098	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C099	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C100	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C101	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C102	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C103	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C104	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C105	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C106	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	
C107	1-128-551-11	ELECT	22μF	20%	25V	
C126	1-128-551-11	ELECT	22μF	20%	25V	
C128	1-128-551-11	ELECT	22μF	20%	25V	
C151	1-126-935-11	ELECT	470μF	20%	16V	
C152	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C153	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C154	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C155	1-128-551-11	ELECT	22μF	20%	25V	
C156	1-126-933-11	ELECT	100μF	20%	16V	
C157	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C159	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	
C161	1-126-968-11	ELECT	100μF	20%	50V	
C162	1-126-960-11	ELECT	1μF	20%	50V	
C163	1-126-959-11	ELECT	0.47μF	20%	50V	
C164	1-128-551-11	ELECT	22μF	20%	25V	
C165	1-128-551-11	ELECT	22μF	20%	25V	
C166	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C167	1-126-935-11	ELECT	470μF	20%	16V	
C168	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C170	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C171	1-126-933-11	ELECT	100μF	20%	16V	
C172	1-126-964-11	ELECT	10μF	20%	50V	
C173	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C174	1-126-933-11	ELECT	100μF	20%	16V	
C175	1-128-551-11	ELECT	22μF	20%	25V	
C176	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	
C177	1-126-959-11	ELECT	0.47μF	20%	50V	
C178	1-126-960-11	ELECT	1μF	20%	50V	
C179	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C180	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C276	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C277	1-126-959-11	ELECT	0.47μF	20%	50V	
C279	1-126-959-11	ELECT	0.47μF	20%	50V	
C280	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C281	1-130-495-00	MYLAR	0.1μF	5%	50V	
C282	1-130-495-00	MYLAR	0.1μF	5%	50V	
C283	1-130-495-00	MYLAR	0.1μF	5%	50V	
C284	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C285	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C286	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C287	1-126-964-11	ELECT	10μF	20%	50V	
C288	1-130-495-00	MYLAR	0.1μF	5%	50V	
C289	1-137-581-11	FILM	0.1μF	5%	100V	

A

REF. NO.	PART NO.	DESCRIPTION			REMARK
C290	1-126-935-11	ELECT	470µF	20%	16V
C291	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C293	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C294	1-130-495-00	MYLAR	0.1µF	5%	50V
C296	1-126-961-11	ELECT	2.2µF	20%	50V
C297	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C299	1-126-959-11	ELECT	0.47µF	20%	50V
C300	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C301	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C302	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C303	1-126-933-11	ELECT	100µF	20%	16V
C304	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C305	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C306	1-126-959-11	ELECT	0.47µF	20%	50V
C307	1-126-959-11	ELECT	0.47µF	20%	50V
C308	1-126-963-11	ELECT	4.7µF	20%	50V
C309	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C310	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C311	1-126-960-11	ELECT	1µF	20%	50V
C312	1-115-419-11	CERAMIC CHIP	3300pF	5%	25V
C313	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C314	1-128-551-11	ELECT	22µF	20%	25V
C315	1-163-113-00	CERAMIC CHIP	68pF	5%	50V (53N77)
C315	1-163-245-11	CERAMIC CHIP	56pF	5%	50V (EXCEPT 53N77)
C316	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C317	1-104-664-11	ELECT	47µF	20%	16V
C318	1-126-933-11	ELECT	100µF	20%	16V
C319	1-126-964-11	ELECT	10µF	20%	50V
C320	1-126-934-11	ELECT	220µF	20%	16V
C321	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C323	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C324	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C325	1-126-964-11	ELECT	10µF	20%	50V
C326	1-104-664-11	ELECT	47µF	20%	25V
C327	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C328	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C329	1-128-551-11	ELECT	22µF	20%	25V
C330	1-128-551-11	ELECT	22µF	20%	25V
C331	1-128-551-11	ELECT	22µF	20%	25V
C332	1-128-551-11	ELECT	22µF	20%	25V
C418	1-126-964-11	ELECT	10µF	20%	50V
C427	1-126-964-11	ELECT	10µF	20%	50V
C433	1-126-963-11	ELECT	4.7µF	20%	50V
C437	1-130-489-00	MYLAR	0.033µF	5%	50V
C438	1-104-664-11	ELECT	47µF	20%	25V
C439	1-126-960-11	ELECT	1µF	20%	50V
C440	1-126-963-11	ELECT	4.7µF	20%	50V
C441	1-130-477-00	MYLAR	0.0033µF	5%	50V
C442	1-130-489-00	MYLAR	0.033µF	5%	50V
C443	1-130-471-00	MYLAR	0.001µF	5%	50V
C444	1-126-963-11	ELECT	4.7µF	20%	50V
C445	1-126-963-11	ELECT	4.7µF	20%	50V
C446	1-130-477-00	MYLAR	0.0033µF	5%	50V
C447	1-130-489-00	MYLAR	0.033µF	5%	50V
C448	1-130-471-00	MYLAR	0.001µF	5%	50V
C449	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C450	1-126-963-11	ELECT	4.7µF	20%	50V
C451	1-126-933-11	ELECT	100µF	20%	16V
C453	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C454	1-130-489-00	MYLAR	0.033µF	5%	50V
C456	1-126-933-11	ELECT	100µF	20%	16V
C457	1-126-934-11	ELECT	220µF	20%	16V
C458	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C459	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C460	1-126-943-11	ELECT	2200µF	20%	25V
C461	1-126-943-11	ELECT	2200µF	20%	25V
C462	1-126-961-11	ELECT	2.2µF	20%	50V
C463	1-126-961-11	ELECT	2.2µF	20%	50V
C464	1-126-933-11	ELECT	100µF	20%	16V
C465	1-128-551-11	ELECT	22µF	20%	25V
C466	1-128-551-11	ELECT	22µF	20%	25V
C467	1-104-664-11	ELECT	47µF	20%	25V
C468	1-126-963-11	ELECT	4.7µF	20%	50V
C469	1-128-551-11	ELECT	22µF	20%	25V
C470	1-104-664-11	ELECT	47µF	20%	25V
C473	1-104-665-11	ELECT	100µF	20%	25V
C474	1-130-495-00	MYLAR	0.1µF	5%	50V
C475	1-130-495-00	MYLAR	0.1µF	5%	50V
C476	1-130-495-00	MYLAR	0.1µF	5%	50V
C477	1-130-495-00	MYLAR	0.1µF	5%	50V
C681	1-128-551-11	ELECT	22µF	20%	25V
C682	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C683	1-126-935-11	ELECT	470µF	20%	16V
C684	1-126-933-11	ELECT	100µF	20%	16V
C685	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C686	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C687	1-128-551-11	ELECT	22µF	20%	25V
C688	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C801	1-163-143-00	CERAMIC CHIP	0.0012µF	5%	50V
C802	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C803	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C804	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C805	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C806	1-104-664-11	ELECT	47µF	20%	25V
C807	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C808	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C809	1-163-016-00	CERAMIC CHIP	0.0039µF	10%	50V
C810	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C811	1-104-664-11	ELECT	47µF	20%	25V
C812	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C813	1-104-664-11	ELECT	47µF	20%	25V
C814	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C815	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C816	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C817	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C818	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C819	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C820	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C821	1-104-664-11	ELECT	47µF	20%	25V
C822	1-163-038-91	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION				REMARK
C823	1-104-664-11	ELECT	47μF	20%	25V	
C824	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C825	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C826	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	
C827	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	
C828	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	
C829	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	
C830	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C831	1-104-664-11	ELECT	47μF	20%	25V	
C832	1-163-235-11	CERAMIC CHIP	22pF	5%	50V	
C833	1-104-664-11	ELECT	47μF	20%	25V	
C834	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	
C835	1-163-235-11	CERAMIC CHIP	22pF	5%	50V	
C842	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C843	1-104-664-11	ELECT	47μF	20%	25V	
C845	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C848	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C849	1-104-664-11	ELECT	47μF	20%	25V	
C850	1-104-664-11	ELECT	47μF	20%	25V	
C851	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C852	1-104-664-11	ELECT	47μF	20%	25V	
C853	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C854	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C855	1-163-001-11	CERAMIC CHIP	220pF	10%	50V	
C856	1-104-664-11	ELECT	47μF	20%	25V	
C858	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C862	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C863	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	
C864	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C865	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C866	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C867	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	
C868	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C869	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C870	1-104-664-11	ELECT	47μF	20%	25V	
C871	1-126-963-11	ELECT	4.7μF	20%	50V	
C872	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C873	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C875	1-104-664-11	ELECT	47μF	20%	25V	
C876	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C877	1-104-664-11	ELECT	47μF	20%	25V	
C878	1-104-664-11	ELECT	47μF	20%	25V	
C879	1-104-664-11	ELECT	47μF	20%	25V	
C880	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C881	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C882	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C883	1-104-664-11	ELECT	47μF	20%	25V	
C884	1-104-664-11	ELECT	47μF	20%	25V	
C885	1-104-664-11	ELECT	47μF	20%	25V	
C886	1-104-664-11	ELECT	47μF	20%	25V	
C887	1-104-664-11	ELECT	47μF	20%	25V	
C888	1-104-664-11	ELECT	47μF	20%	25V	
C889	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C890	1-104-664-11	ELECT	47μF	20%	25V	
C891	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C892	1-104-664-11	ELECT	47μF	20%	25V	
C893	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C894	1-104-664-11	ELECT	47μF	20%	25V	
C897	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C898	1-126-934-11	ELECT	220μF	20%	16V	
C899	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C900	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C901	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C902	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C903	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C904	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C905	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C906	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C907	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C908	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C909	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C910	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V	
C911	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V	
C912	1-104-664-11	ELECT	47μF	20%	25V	
C913	1-104-664-11	ELECT	47μF	20%	25V	
C914	1-104-664-11	ELECT	47μF	20%	25V	
C915	1-104-664-11	ELECT	47μF	20%	25V	
C916	1-104-664-11	ELECT	47μF	20%	25V	
C917	1-104-664-11	ELECT	47μF	20%	25V	
C918	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	
C919	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	
C920	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	
C921	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	
C922	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	
C923	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	
C926	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C927	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C928	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C929	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C930	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C931	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C932	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C933	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
C934	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
C935	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
C936	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
C937	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
C938	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	
C951	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	
C952	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	
C953	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	
C954	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	
C955	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	
C956	1-163-019-00	CERAMIC CHIP	0.0068μF	10%	50V	
C957	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C958	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C959	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C960	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C961	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C962	1-163-038-91	CERAMIC CHIP	0.1μF		25V	
C963	1-104-664-11	ELECT	47μF	20%	25V	
C964	1-104-664-11	ELECT	47μF	20%	25V	

REF. NO.	PART NO.	DESCRIPTION			REMARK
C965	1-104-664-11	ELECT	47µF	20%	25V
C966	1-104-664-11	ELECT	47µF	20%	25V
C967	1-104-664-11	ELECT	47µF	20%	25V
C968	1-104-664-11	ELECT	47µF	20%	25V
C969	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C970	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C971	1-104-664-11	ELECT	47µF	20%	25V
C1101	1-126-935-11	ELECT	470µF	20%	16V
C1102	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1103	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1104	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1105	1-128-551-11	ELECT	22µF	20%	25V
C1106	1-128-551-11	ELECT	22µF	20%	25V
C1107	1-126-959-11	ELECT	0.47µF	20%	50V
C1108	1-128-551-11	ELECT	22µF	20%	25V
C1109	1-126-959-11	ELECT	0.47µF	20%	50V
C1110	1-126-959-11	ELECT	0.47µF	20%	50V
C1111	1-126-959-11	ELECT	0.47µF	20%	50V
C1112	1-128-551-11	ELECT	22µF	20%	25V
C1113	1-128-551-11	ELECT	22µF	20%	25V
C1114	1-128-551-11	ELECT	22µF	20%	25V
C1115	1-126-959-11	ELECT	0.47µF	20%	50V
C1116	1-126-964-11	ELECT	10µF	20%	50V
C1117	1-126-964-11	ELECT	10µF	20%	50V
C1118	1-128-551-11	ELECT	22µF	20%	25V
C1119	1-126-964-11	ELECT	10µF	20%	50V
C1120	1-126-964-11	ELECT	10µF	20%	50V
C1121	1-126-960-11	ELECT	1µF	20%	50V
C1122	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1123	1-128-551-11	ELECT	22µF	20%	25V
C1124	1-126-959-11	ELECT	0.47µF	20%	50V
C1125	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1126	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1127	1-126-959-11	ELECT	0.47µF	20%	50V
C1129	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1130	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1131	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1132	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1133	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1134	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1601	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1602	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C1603	1-164-344-11	CERAMIC CHIP	0.068µF	10%	25V
C1604	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V
C1605	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1606	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C1607	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1608	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1610	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1613	1-164-344-11	CERAMIC CHIP	0.068µF	10%	25V
C1614	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V
C1615	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1617	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C1618	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1619	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C1620	1-104-664-11	ELECT	47µF	20%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1701	1-128-551-11	ELECT	22µF	20%	25V
C1702	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1703	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1704	1-126-933-11	ELECT	100µF	20%	16V
C1705	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1706	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1707	1-128-551-11	ELECT	22µF	20%	25V
C1708	1-128-551-11	ELECT	22µF	20%	25V
C1709	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1710	1-163-257-11	CERAMIC CHIP	180pF	5%	50V
C1711	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1712	1-128-551-11	ELECT	22µF	20%	25V
C1713	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C1714	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1715	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1716	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1717	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1718	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1719	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C1720	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1721	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1722	1-128-551-11	ELECT	22µF	20%	25V
C1723	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1724	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1725	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1726	1-128-551-11	ELECT	22µF	20%	25V
C1727	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1728	1-128-551-11	ELECT	22µF	20%	25V
C1729	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1730	1-126-959-11	ELECT	0.47µF	20%	50V
C1731	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C1732	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C1733	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1735	1-163-127-00	CERAMIC CHIP	270pF	5%	50V
C1901	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1902	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1903	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1904	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1905	1-128-551-11	ELECT	22µF	20%	25V
C1906	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C1907	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1908	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1909	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C1910	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1911	1-128-551-11	ELECT	22µF	20%	25V
C1912	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1913	1-164-346-11	CERAMIC CHIP	1µF		16V
C1914	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C1915	1-164-346-11	CERAMIC CHIP	1µF		16V
C1916	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1917	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1918	1-164-005-11	CERAMIC CHIP	0.47µF		16V
C1919	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1920	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1921	1-126-963-11	ELECT	4.7µF	20%	50V
C1922	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1923	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C1924	1-126-960-11	ELECT	1μF	20%	50V
C1925	1-164-005-11	CERAMIC CHIP	0.47μF		16V
C1926	1-128-551-11	ELECT	22μF	20%	25V
C1927	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1928	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1929	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1930	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C1931	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1932	1-128-551-11	ELECT	22μF	20%	25V
C1933	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1934	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1935	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1936	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1937	1-128-551-11	ELECT	22μF	20%	25V
C1938	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1939	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1940	1-128-551-11	ELECT	22μF	20%	25V
C1941	1-128-551-11	ELECT	22μF	20%	25V
C1942	1-128-551-11	ELECT	22μF	20%	25V
C1943	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1944	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1945	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1946	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1947	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C1948	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1949	1-126-960-11	ELECT	1μF	20%	50V
C1950	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1951	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1952	1-128-551-11	ELECT	22μF	20%	25V
C1953	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1954	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1955	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C1958	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1959	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1960	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1961	1-128-551-11	ELECT	22μF	20%	25V
C1962	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1963	1-126-960-11	ELECT	1μF	20%	50V
C1964	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1965	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1966	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1967	1-128-551-11	ELECT	22μF	20%	25V
C1969	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1970	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1971	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1972	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V

<JUMPER RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
CJ401	1-216-295-91	SHORT	0	(53N77)	
CJ402	1-216-295-91	SHORT	0	(53N77)	
CJ403	1-216-295-91	SHORT	0	(53N77)	
CJ404	1-216-295-91	SHORT	0	(53N77)	

<CONNECTOR>

REF. NO.		PART NO.	DESCRIPTION	REMARK
CN001	*	1-564-507-11	PLUG, CONNECTOR 4P	
CN002	*	1-564-513-11	PLUG, CONNECTOR 10P	
CN003		1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN151		1-695-915-11	TAB (CONTACT)	
CN202	*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN203	*	1-564-509-11	PLUG, CONNECTOR 6P	
CN204	*	1-564-512-11	PLUG, CONNECTOR 9P	
CN205		1-695-915-11	TAB (CONTACT)	
CN402	*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN403	*	1-564-507-11	PLUG, CONNECTOR 4P	
CN681	*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN801	*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN802	*	1-564-511-11	PLUG, CONNECTOR 8P	
CN1702		1-764-334-11	PLUG, CONNECTOR 11P	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION		REMARK
D001	8-719-988-61	DIODE	1SS355TE-17	
D002	8-719-988-61	DIODE	1SS355TE-17	
D003	8-719-988-61	DIODE	1SS355TE-17	
D004	8-719-069-55	DIODE	UDZS-TE17-5.6B	
D005	8-719-988-61	DIODE	1SS355TE-17	
D006	8-719-069-55	DIODE	UDZS-TE17-5.6B	
D007	8-719-069-55	DIODE	UDZS-TE17-5.6B	
D151	8-719-977-81	DIODE	UDZ-TE-17-33B	
D202	8-719-977-28	DIODE	UDZS-TE17-10B	
D206	8-719-988-61	DIODE	1SS355TE-17	
D207	8-719-988-61	DIODE	1SS355TE-17	
D208	8-719-069-55	DIODE	UDZS-TE17-5.6B	
D209	8-719-988-61	DIODE	1SS355TE-17	
D301	8-719-988-61	DIODE	1SS355TE-17	
D302	8-719-988-61	DIODE	1SS355TE-17	
D303	8-719-988-61	DIODE	1SS355TE-17	
D304	8-719-069-59	DIODE	UDZS-TE17-8.2B	
D305	8-719-977-28	DIODE	UDZS-TE17-10B	
D402	8-719-988-61	DIODE	1SS355TE-17	
D403	8-719-988-61	DIODE	1SS355TE-17	
D404	8-719-988-61	DIODE	1SS355TE-17	
D405	8-719-988-61	DIODE	1SS355TE-17	
D406	8-719-056-95	DIODE	UDZ-TE-17-22B	
D407	8-719-988-61	DIODE	1SS355TE-17	
D408	8-719-988-61	DIODE	1SS355TE-17	
D409	8-719-920-67	DIODE	ERC91-02 (EXCEPT 53N77)	
D412	8-719-056-95	DIODE	UDZ-TE-17-22B	
D413	8-719-056-95	DIODE	UDZ-TE-17-22B	
D416	8-719-920-67	DIODE	ERC91-02 (EXCEPT 53N77)	
D418	8-719-056-95	DIODE	UDZ-TE-17-22B	
D420	8-719-988-61	DIODE	1SS355TE-17	
D421	8-719-988-61	DIODE	1SS355TE-17	
D801	8-719-988-61	DIODE	1SS355TE-17	
D802	8-719-988-61	DIODE	1SS355TE-17	
D803	8-719-988-61	DIODE	1SS355TE-17	
D804	8-719-988-61	DIODE	1SS355TE-17	
D805	8-719-069-55	DIODE	UDZS-TE17-5.6B	
D806	8-719-069-55	DIODE	UDZS-TE17-5.6B	

REF. NO.	PART NO.	DESCRIPTION				REMARK
D807	8-719-069-55	DIODE	UDZS-TE17-5.6B			
D808	8-719-069-55	DIODE	UDZS-TE17-5.6B			
D809	8-719-988-61	DIODE	1SS355TE-17			
D810	8-719-988-61	DIODE	1SS355TE-17			
D816	8-719-988-61	DIODE	1SS355TE-17			
D817	8-719-988-61	DIODE	1SS355TE-17			
D818	8-719-988-61	DIODE	1SS355TE-17			
D819	8-719-988-61	DIODE	1SS355TE-17			
D820	8-719-988-61	DIODE	1SS355TE-17			
D821	8-719-988-61	DIODE	1SS355TE-17			
D822	8-719-988-61	DIODE	1SS355TE-17			
D823	8-719-988-61	DIODE	1SS355TE-17			
D824	8-719-988-61	DIODE	1SS355TE-17			
D1101	8-719-069-55	DIODE	UDZS-TE17-5.6B			
D1102	8-719-977-28	DIODE	UDZS-TE17-10B			
D1103	8-719-977-28	DIODE	UDZS-TE17-10B			
D1104	8-719-977-28	DIODE	UDZS-TE17-10B			
D1105	8-719-977-28	DIODE	UDZS-TE17-10B			
D1106	8-719-977-28	DIODE	UDZS-TE17-10B			
D1107	8-719-977-28	DIODE	UDZS-TE17-10B			
D1108	8-719-977-28	DIODE	UDZS-TE17-10B			
D1109	8-719-977-28	DIODE	UDZS-TE17-10B			
D1110	8-719-977-28	DIODE	UDZS-TE17-10B			
D1111	8-719-977-28	DIODE	UDZS-TE17-10B			
D1112	8-719-977-28	DIODE	UDZS-TE17-10B			
D1113	8-719-977-28	DIODE	UDZS-TE17-10B			
D1114	8-719-977-28	DIODE	UDZS-TE17-10B			
D1115	8-719-977-28	DIODE	UDZS-TE17-10B			
D1116	8-719-977-28	DIODE	UDZS-TE17-10B			
D1117	8-719-977-28	DIODE	UDZS-TE17-10B			
D1118	8-719-977-28	DIODE	UDZS-TE17-10B			
D1119	8-719-977-28	DIODE	UDZS-TE17-10B			
D1120	8-719-988-61	DIODE	1SS355TE-17			
D1121	8-719-977-28	DIODE	UDZS-TE17-10B			
D1122	8-719-977-28	DIODE	UDZS-TE17-10B			
D1123	8-719-988-61	DIODE	1SS355TE-17			
D1124	8-719-988-61	DIODE	1SS355TE-17			
D1125	8-719-988-61	DIODE	1SS355TE-17			
D1126	8-719-977-28	DIODE	UDZS-TE17-10B			
D1127	8-719-977-28	DIODE	UDZS-TE17-10B			
D1901	8-719-988-61	DIODE	1SS355TE-17			
D1902	8-719-988-61	DIODE	1SS355TE-17			
D1903	8-719-988-61	DIODE	1SS355TE-17			
D1904	8-719-988-61	DIODE	1SS355TE-17			
D1905	8-719-988-61	DIODE	1SS355TE-17			
D1906	8-719-988-61	DIODE	1SS355TE-17			

<FERRITE BEAD>

REF. NO.	PART NO.	DESCRIPTION				REMARK
FB001	1-414-135-11	FERRITE	0µH			
FB151	1-414-135-11	FERRITE	0µH			
FB152	1-414-135-11	FERRITE	0µH			
FB206	1-216-017-91	RES-CHIP	47	5%	1/10W	
FB209	1-216-017-91	RES-CHIP	47	5%	1/10W	
FB212	1-216-295-91	SHORT	0			
FB215	1-216-295-91	SHORT	0			
FB216	1-216-295-91	SHORT	0			
FB217	1-216-295-91	SHORT	0			
FB301	1-216-295-91	SHORT	0			
FB801	1-414-135-11	FERRITE	0µH			
FB802	1-414-135-11	FERRITE	0µH			
FB803	1-414-135-11	FERRITE	0µH			
FB804	1-500-245-11	FERRITE	0µH			
FB805	1-500-245-11	FERRITE	0µH			
FB806	1-414-135-11	FERRITE	0µH			
FB807	1-414-135-11	FERRITE	0µH			
FB808	1-414-135-11	FERRITE	0µH			
FB1701	1-414-135-11	FERRITE	0µH			
FB1702	1-414-135-11	FERRITE	0µH			
FB1902	1-414-135-11	FERRITE	0µH			
FB2007	1-216-017-91	RES-CHIP	47	5%	1/10W	

<FILTER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
FL1701	1-239-847-11	FILTER, LOW PASS	
FL1702	1-239-847-11	FILTER, LOW PASS	
FL1703	1-239-847-11	FILTER, LOW PASS	

<IC>

REF. NO.	PART NO.	DESCRIPTION		REMARK
IC001	8-759-352-91	IC	PST9143NL	
IC002	8-752-916-28	IC	CXP750010-026Q	
IC004	8-759-527-76	IC	M24C08-MN6T	
IC206	8-752-091-25	IC	CXA2147Q	
IC301	8-759-353-02	IC	NJM2533M(TE2)	
IC403	8-759-578-88	IC	BH3868FS-E2	
IC404	8-759-100-96	IC	NJM4558M-T2	
IC406	8-759-190-89	IC	TDA7265	
IC681	8-759-459-99	IC	PQ09RD11	
IC682	8-759-459-99	IC	PQ09RD11	
IC801	8-759-488-29	IC	TC7W66FU(TE12R)	
IC802	8-759-394-80	IC	NJM2058M-TE2	
IC803	8-759-589-66	IC	CM0006CF	
IC804	8-759-394-80	IC	NJM2058M-TE2	
IC805	8-752-903-32	IC	CXP86324-024Q	
IC806	8-759-394-80	IC	NJM2058M-TE2	
IC807	8-759-546-22	IC	µPD6376GS-E2	
IC808	8-759-032-11	IC	TC74HC04AF(EL)	
IC809	8-759-295-09	IC	TLC2932IPW-E20	
IC810	8-759-468-90	IC	ST24E16FM6TR	
IC811	8-759-352-91	IC	PST9143NL	
IC812	8-759-235-19	IC	TC74HC08AF(EL)	
IC814	8-759-032-20	IC	TC74HC32AF(EL)	
IC815	8-759-546-22	IC	µPD6376GS-E2	
IC816	8-759-546-22	IC	µPD6376GS-E2	
IC817	8-759-546-22	IC	µPD6376GS-E2	
IC818	8-759-100-96	IC	NJM4558M-TE2	
IC819	8-759-106-02	IC	µPC4570G2-E2	
IC820	8-759-106-02	IC	µPC4570G2-E2	
IC821	8-759-106-02	IC	µPC4570G2-E2	
IC822	8-759-106-02	IC	µPC4570G2-E2	
IC823	8-759-106-02	IC	µPC4570G2-E2	

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC824	8-759-106-02	IC µPC4570G2-E2	
IC1101	8-752-081-32	IC CXA2079Q	
IC1601	8-759-638-04	IC Z8622912SSC-00TR	
IC1602	8-759-638-05	IC Z8613012SSC-00TR	
IC1603	8-759-352-91	IC PST9143NL	
IC1701	8-759-701-75	IC NJM7805FA	
IC1702	8-759-568-32	IC TC90A53F(ELP)	
IC1901	8-752-080-75	IC CXA2039M-T6	
IC1902	8-752-086-80	IC CXA2019AQ-T4	
IC1903	8-759-932-69	IC BU4053BCF-T2	
IC1904	8-752-058-68	IC CXA1315M-T4	
IC1905	8-759-655-57	IC SDA9288XE-B0121-GEG	
		<JACK>	
J1101	1-774-751-11	TERMINAL BLOCK, S (VIDEO 3 IN)	
J1102	1-774-751-11	TERMINAL BLOCK, S (VIDEO 1 IN)	
J1103	1-507-667-00	JACK, MIC (CONTROL S OUT)	
J1104	1-774-750-11	JACK BLOCK, PIN (AUDIO (VAR/FIX) OUT)	
J1105	1-774-749-11	JACK BLOCK, PIN (MONITOR OUT)	
J1106	1-785-082-11	JACK BLOCK, PIN 3P (Y/PB/PR)	
		<COIL>	
L001	1-414-183-41	INDUCTOR 10µH	
L004	1-410-397-21	FERRITE 1.1µH	
L151	1-414-187-11	INDUCTOR 47µH	
L152	1-414-187-11	INDUCTOR 47µH	
L153	1-414-187-11	INDUCTOR 47µH	
L154	1-414-183-41	INDUCTOR 10µH	
L155	1-414-187-11	INDUCTOR 47µH	
L211	1-414-857-11	INDUCTOR 100µH	
L212	1-414-856-11	INDUCTOR 10µH	
L681	1-406-975-21	INDUCTOR 47µH	
L801	1-414-183-41	INDUCTOR 10µH	
L802	1-414-183-41	INDUCTOR 10µH	
L803	1-414-183-41	INDUCTOR 10µH	
L804	1-414-183-41	INDUCTOR 10µH	
L809	1-414-183-41	INDUCTOR 10µH	
L816	1-414-183-41	INDUCTOR 10µH	
L823	1-410-494-11	INDUCTOR 1mH	
L824	1-410-494-11	INDUCTOR 1mH	
L825	1-410-494-11	INDUCTOR 1mH	
L826	1-410-494-11	INDUCTOR 1mH	
L827	1-410-494-11	INDUCTOR 1mH	
L828	1-410-494-11	INDUCTOR 1mH	
L829	1-414-183-41	INDUCTOR 10µH	
L830	1-407-495-00	INDUCTOR 1.8mH	
L831	1-407-495-00	INDUCTOR 1.8mH	
L832	1-407-495-00	INDUCTOR 1.8mH	
L833	1-407-495-00	INDUCTOR 1.8mH	
L834	1-407-495-00	INDUCTOR 1.8mH	
L835	1-407-495-00	INDUCTOR 1.8mH	
L843	1-414-183-41	INDUCTOR 10µH	
L1703	1-414-187-11	INDUCTOR 47µH	
		<IC LINK>	
PS401	1-532-984-11	LINK, IC 2A/90V	
PS402	1-532-984-11	LINK, IC 2A/90V	
		<TRANSISTOR>	
Q001	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q003	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q004	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q005	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q006	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q007	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q009	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q011	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q012	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q013	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q015	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q016	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q017	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q018	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q020	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q022	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q024	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q151	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q152	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q153	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q205	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q217	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q218	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q219	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q220	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q221	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q222	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q223	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q224	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q225	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q226	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q227	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q228	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q229	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q230	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q231	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q232	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q301	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q304	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q305	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q306	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q401	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q402	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q403	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q404	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q408	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q409	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q410	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q411	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q801	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q802	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q803	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q804	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q805	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q806	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q807	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q808	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q809	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q811	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q812	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q813	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q814	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1101	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1102	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1104	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1105	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1106	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1107	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1108	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1109	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1110	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q1111	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1112	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1113	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1114	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1115	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1116	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1117	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1118	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1119	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1121	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1122	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1124	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1125	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1601	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1602	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1603	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1701	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1702	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1703	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1704	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1705	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1706	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1707	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1708	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1709	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1901	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1902	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1903	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1904	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1905	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1906	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1907	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1908	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1909	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1910	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1911	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1913	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1914	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1915	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1916	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1917	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1918	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1920	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
		<RESISTOR>	
R001	1-216-041-00	RES-CHIP 470 5% 1/10W	
R002	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R003	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R004	1-216-121-91	RES-CHIP 1M 5% 1/10W	
R005	1-216-097-91	RES-CHIP 100K 5% 1/10W	
R006	1-216-033-00	RES-CHIP 220 5% 1/10W	
R007	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R008	1-216-033-00	RES-CHIP 220 5% 1/10W	
R009	1-216-033-00	RES-CHIP 220 5% 1/10W	
R010	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R011	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R013	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R014	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R015	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R016	1-216-033-00	RES-CHIP 220 5% 1/10W	
R017	1-216-033-00	RES-CHIP 220 5% 1/10W	
R018	1-216-033-00	RES-CHIP 220 5% 1/10W	
R019	1-216-033-00	RES-CHIP 220 5% 1/10W	
R020	1-216-033-00	RES-CHIP 220 5% 1/10W	
R021	1-216-033-00	RES-CHIP 220 5% 1/10W	
R022	1-216-033-00	RES-CHIP 220 5% 1/10W	
R023	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R024	1-216-025-91	RES-CHIP 100 5% 1/10W	
R025	1-216-025-91	RES-CHIP 100 5% 1/10W	
R026	1-216-025-91	RES-CHIP 100 5% 1/10W	
R027	1-216-025-91	RES-CHIP 100 5% 1/10W	
R028	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R029	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R030	1-216-033-00	RES-CHIP 220 5% 1/10W	
R031	1-216-037-00	RES-CHIP 330 5% 1/10W	
R032	1-216-033-00	RES-CHIP 220 5% 1/10W	
R033	1-216-033-00	RES-CHIP 220 5% 1/10W	
R034	1-216-033-00	RES-CHIP 220 5% 1/10W	
R035	1-216-033-00	RES-CHIP 220 5% 1/10W	
R037	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION			REMARK
R040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R041	1-216-033-00	RES-CHIP	220	5%	1/10W
R042	1-216-033-00	RES-CHIP	220	5%	1/10W
R043	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R044	1-216-121-91	RES-CHIP	1M	5%	1/10W
R045	1-216-097-91	RES-CHIP	100K	5%	1/10W
R046	1-216-073-00	RES-CHIP	10K	5%	1/10W
R047	1-216-073-00	RES-CHIP	10K	5%	1/10W
R048	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R049	1-216-049-91	RES-CHIP	1K	5%	1/10W
R050	1-216-049-91	RES-CHIP	1K	5%	1/10W
R051	1-216-049-91	RES-CHIP	1K	5%	1/10W
R052	1-216-049-91	RES-CHIP	1K	5%	1/10W
R053	1-216-049-91	RES-CHIP	1K	5%	1/10W
R054	1-216-033-00	RES-CHIP	220	5%	1/10W
R055	1-216-033-00	RES-CHIP	220	5%	1/10W
R056	1-216-049-91	RES-CHIP	1K	5%	1/10W
R057	1-216-049-91	RES-CHIP	1K	5%	1/10W
R058	1-216-089-91	RES-CHIP	47K	5%	1/10W
R059	1-216-089-91	RES-CHIP	47K	5%	1/10W
R060	1-216-049-91	RES-CHIP	1K	5%	1/10W
R061	1-216-041-00	RES-CHIP	470	5%	1/10W
R062	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R063	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R064	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R066	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R068	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R070	1-216-033-00	RES-CHIP	220	5%	1/10W
R071	1-216-033-00	RES-CHIP	220	5%	1/10W
R072	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R073	1-216-295-91	SHORT	0		
R074	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R075	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R077	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R078	1-216-025-91	RES-CHIP	100	5%	1/10W
R079	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R084	1-216-025-91	RES-CHIP	100	5%	1/10W
R085	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R086	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R087	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R088	1-216-025-91	RES-CHIP	100	5%	1/10W
R089	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R090	1-216-113-00	RES-CHIP	470K	5%	1/10W
R091	1-216-017-91	RES-CHIP	47	5%	1/10W
R092	1-216-113-00	RES-CHIP	470K	5%	1/10W
R093	1-216-017-91	RES-CHIP	47	5%	1/10W
R094	1-216-113-00	RES-CHIP	470K	5%	1/10W
R095	1-216-017-91	RES-CHIP	47	5%	1/10W
R096	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R097	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R099	1-216-041-00	RES-CHIP	470	5%	1/10W
R100	1-216-041-00	RES-CHIP	470	5%	1/10W
R101	1-216-041-00	RES-CHIP	470	5%	1/10W
R102	1-216-113-00	RES-CHIP	470K	5%	1/10W
R103	1-216-113-00	RES-CHIP	470K	5%	1/10W
R104	1-216-113-00	RES-CHIP	470K	5%	1/10W
R105	1-216-017-91	RES-CHIP	47	5%	1/10W
R106	1-216-017-91	RES-CHIP	47	5%	1/10W
R107	1-216-017-91	RES-CHIP	47	5%	1/10W
R108	1-216-113-00	RES-CHIP	470K	5%	1/10W
R109	1-216-113-00	RES-CHIP	470K	5%	1/10W
R110	1-216-043-91	RES-CHIP	560	5%	1/10W
R111	1-216-043-91	RES-CHIP	560	5%	1/10W
R112	1-216-043-91	RES-CHIP	560	5%	1/10W
R113	1-216-113-00	RES-CHIP	470K	5%	1/10W
R114	1-216-045-00	RES-CHIP	680	5%	1/10W
R115	1-216-045-00	RES-CHIP	680	5%	1/10W
R116	1-216-045-00	RES-CHIP	680	5%	1/10W
R117	1-216-295-91	SHORT	0		
R118	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R119	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R120	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R121	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R122	1-216-295-91	SHORT	0		
R123	1-216-017-91	RES-CHIP	47	5%	1/10W
R124	1-216-017-91	RES-CHIP	47	5%	1/10W
R125	1-216-017-91	RES-CHIP	47	5%	1/10W
R127	1-216-025-91	RES-CHIP	100	5%	1/10W
R128	1-216-025-91	RES-CHIP	100	5%	1/10W
R129	1-216-073-00	RES-CHIP	10K	5%	1/10W
R130	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R131	1-216-073-00	RES-CHIP	10K	5%	1/10W
R132	1-216-295-91	SHORT	0		
R135	1-216-295-91	SHORT	0		
R151	1-216-025-91	RES-CHIP	100	5%	1/10W
R152	1-216-083-00	RES-CHIP	27K	5%	1/10W
R153	1-216-689-11	RES-CHIP	39K	5%	1/10W
R154	1-216-043-91	RES-CHIP	560	5%	1/10W
R155	1-216-025-91	RES-CHIP	100	5%	1/10W
R156	1-216-045-00	RES-CHIP	680	5%	1/10W
R157	1-216-049-91	RES-CHIP	1K	5%	1/10W
R158	1-216-464-11	METAL OXIDE	18K	5%	2W
R159	1-216-041-00	RES-CHIP	470	5%	1/10W
R160	1-216-025-91	RES-CHIP	100	5%	1/10W
R161	1-216-083-00	RES-CHIP	27K	5%	1/10W
R162	1-216-041-00	RES-CHIP	470	5%	1/10W
R163	1-216-689-11	RES-CHIP	39K	5%	1/10W
R164	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R166	1-216-025-91	RES-CHIP	100	5%	1/10W
R167	1-216-025-91	RES-CHIP	100	5%	1/10W
R168	1-216-025-91	RES-CHIP	100	5%	1/10W
R169	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R170	1-216-025-91	RES-CHIP	100	5%	1/10W
R171	1-216-295-91	SHORT	0		
R203	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R204	1-216-041-00	RES-CHIP	470	5%	1/10W
R207	1-216-041-00	RES-CHIP	470	5%	1/10W
R208	1-216-295-91	SHORT	0		
R274	1-216-073-00	RES-CHIP	10K	5%	1/10W
R275	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R276	1-216-097-91	RES-CHIP	100K	5%	1/10W
R277	1-216-089-91	RES-CHIP	47K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R278	1-216-073-00	RES-CHIP	10K	5%	1/10W
R279	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R280	1-216-073-00	RES-CHIP	10K	5%	1/10W
R281	1-216-025-91	RES-CHIP	100	5%	1/10W
R282	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R283	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R284	1-216-025-91	RES-CHIP	100	5%	1/10W
R285	1-216-049-91	RES-CHIP	1K	5%	1/10W
R286	1-216-025-91	RES-CHIP	100	5%	1/10W
R287	1-216-025-91	RES-CHIP	100	5%	1/10W
R288	1-216-295-91	SHORT	0		
R289	1-216-049-91	RES-CHIP	1K	5%	1/10W
R290	1-216-049-91	RES-CHIP	1K	5%	1/10W
R291	1-216-049-91	RES-CHIP	1K	5%	1/10W
R292	1-216-049-91	RES-CHIP	1K	5%	1/10W
R293	1-216-049-91	RES-CHIP	1K	5%	1/10W
R294	1-216-049-91	RES-CHIP	1K	5%	1/10W
R295	1-216-295-91	SHORT	0		
R296	1-216-033-00	RES-CHIP	220	5%	1/10W
R297	1-216-033-00	RES-CHIP	220	5%	1/10W
R298	1-216-033-00	RES-CHIP	220	5%	1/10W
R299	1-216-033-00	RES-CHIP	220	5%	1/10W
R300	1-216-033-00	RES-CHIP	220	5%	1/10W
R301	1-216-033-00	RES-CHIP	220	5%	1/10W
R302	1-216-049-91	RES-CHIP	1K	5%	1/10W
R303	1-216-133-00	RES-CHIP	3.3M	5%	1/10W
R304	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R305	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R306	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R307	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R308	1-216-109-00	RES-CHIP	330K	5%	1/10W
R309	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R310	1-216-033-00	RES-CHIP	220	5%	1/10W
R311	1-216-025-91	RES-CHIP	100	5%	1/10W
R312	1-216-025-91	RES-CHIP	100	5%	1/10W
R313	1-216-113-00	RES-CHIP	470K	5%	1/10W
R314	1-216-025-91	RES-CHIP	100	5%	1/10W
R315	1-216-043-91	RES-CHIP	560	5%	1/10W
R316	1-216-049-91	RES-CHIP	1K	5%	1/10W
R317	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R318	1-216-077-91	RES-CHIP	15K	5%	1/10W
R319	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R320	1-216-073-00	RES-CHIP	10K	5%	1/10W
R321	1-216-033-00	RES-CHIP	220	5%	1/10W
R322	1-216-073-00	RES-CHIP	10K	5%	1/10W
R323	1-216-017-91	RES-CHIP	47	5%	1/10W
R324	1-216-049-91	RES-CHIP	1K	5%	1/10W
R325	1-216-073-00	RES-CHIP	10K	5%	1/10W
R326	1-216-073-00	RES-CHIP	10K	5%	1/10W
R327	1-216-073-00	RES-CHIP	10K	5%	1/10W
R328	1-216-049-91	RES-CHIP	1K	5%	1/10W
R329	1-216-073-00	RES-CHIP	10K	5%	1/10W
R330	1-216-073-00	RES-CHIP	10K	5%	1/10W
R331	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R332	1-216-073-00	RES-CHIP	10K	5%	1/10W
R333	1-216-049-91	RES-CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R334	1-216-113-00	RES-CHIP	470K	5%	1/10W
R335	1-216-041-00	RES-CHIP	470	5%	1/10W
R336	1-216-049-91	RES-CHIP	1K	5%	1/10W
R337	1-216-049-91	RES-CHIP	1K	5%	1/10W
R338	1-216-077-91	RES-CHIP	15K	5%	1/10W
R339	1-216-049-91	RES-CHIP	1K	5%	1/10W
R340	1-216-041-00	RES-CHIP	470	5%	1/10W
R341	1-216-041-00	RES-CHIP	470	5%	1/10W
R342	1-216-049-91	RES-CHIP	1K	5%	1/10W
R343	1-216-081-00	RES-CHIP	22K	5%	1/10W
R344	1-216-025-91	RES-CHIP	100	5%	1/10W
R345	1-216-049-91	RES-CHIP	1K	5%	1/10W
R346	1-216-089-91	RES-CHIP	47K	5%	1/10W
R347	1-216-073-00	RES-CHIP	10K	5%	1/10W
R348	1-216-079-00	RES-CHIP	18K	5%	1/10W
R349	1-216-077-91	RES-CHIP	15K	5%	1/10W
R350	1-216-073-00	RES-CHIP	10K	5%	1/10W
R351	1-216-041-00	RES-CHIP	470	5%	1/10W
R352	1-216-081-00	RES-CHIP	22K	5%	1/10W
R353	1-216-113-00	RES-CHIP	470K	5%	1/10W
R354	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R355	1-216-073-00	RES-CHIP	10K	5%	1/10W
R356	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R357	1-216-049-91	RES-CHIP	1K	5%	1/10W
R360	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R361	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R362	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R363	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R411	1-216-025-91	RES-CHIP	100	5%	1/10W
R412	1-216-025-91	RES-CHIP	100	5%	1/10W
R413	1-216-025-91	RES-CHIP	100	5%	1/10W
R414	1-216-081-00	RES-CHIP	22K	5%	1/10W
R415	1-216-073-00	RES-CHIP	10K	5%	1/10W
R418	1-216-025-91	RES-CHIP	100	5%	1/10W
R419	1-216-025-91	RES-CHIP	100	5%	1/10W
R420	1-216-025-91	RES-CHIP	100	5%	1/10W
R421	1-216-025-91	RES-CHIP	100	5%	1/10W
R422	1-216-025-91	RES-CHIP	100	5%	1/10W
R423	1-216-089-91	RES-CHIP	47K	5%	1/10W
R425	1-216-025-91	RES-CHIP	100	5%	1/10W
R426	1-216-073-00	RES-CHIP	10K	5%	1/10W
R428	1-216-073-00	RES-CHIP	10K	5%	1/10W
R429	1-216-073-00	RES-CHIP	10K	5%	1/10W
R430	1-216-041-00	RES-CHIP	470	5%	1/10W
R431	1-216-073-00	RES-CHIP	10K	5%	1/10W
R432	1-216-041-00	RES-CHIP	470	5%	1/10W
R433	1-216-041-00	RES-CHIP	470	5%	1/10W
R434	1-216-097-91	RES-CHIP	100K	5%	1/10W
R435	1-216-073-00	RES-CHIP	10K	5%	1/10W
R436	1-216-079-00	RES-CHIP	18K	5%	1/10W
R437	1-216-046-00	RES-CHIP	750	5%	1/10W
R438	1-216-073-00	RES-CHIP	10K	5%	1/10W
R440	1-216-046-00	RES-CHIP	750	5%	1/10W
R441	1-216-049-91	RES-CHIP	1K	5%	1/10W
R442	1-216-041-00	RES-CHIP	470	5%	1/10W
R443	1-216-073-00	RES-CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R444	1-216-077-91	RES-CHIP	15K	5%	1/10W
R445	1-216-079-00	RES-CHIP	18K	5%	1/10W
R446	1-216-085-00	RES-CHIP	33K	5%	1/10W
R447	1-215-451-00	METAL	18K	1%	1/4W (EXCEPT 53N77)
R447	1-215-453-00	METAL	22K	1%	1/4W (53N77)
R448	1-215-451-00	METAL	18K	1%	1/4W (EXCEPT 53N77)
R448	1-215-453-00	METAL	22K	1%	1/4W (53N77)
R449	1-216-049-91	RES-CHIP	1K	5%	1/10W
R451	1-216-073-00	RES-CHIP	10K	5%	1/10W
R452	1-216-083-00	RES-CHIP	27K	5%	1/10W
R455	1-216-083-00	RES-CHIP	27K	5%	1/10W
R458	1-249-389-11	CARBON	4.7	5%	1/4W
R459	1-249-389-11	CARBON	4.7	5%	1/4W
R460	1-216-089-91	RES-CHIP	47K	5%	1/10W
R461	1-216-025-91	RES-CHIP	100	5%	1/10W
R462	1-216-075-00	RES-CHIP	12K	5%	1/10W
R463	1-216-089-91	RES-CHIP	47K	5%	1/10W
R464	1-216-089-91	RES-CHIP	47K	5%	1/10W
R465	1-216-121-91	RES-CHIP	1M	5%	1/10W
R466	1-216-079-00	RES-CHIP	18K	5%	1/10W
R467	1-216-077-91	RES-CHIP	15K	5%	1/10W
R468	1-216-295-91	SHORT	0		
R474	1-216-049-91	RES-CHIP	1K	5%	1/10W
R801	1-500-245-11	FERRITE	0µH		
R802	1-500-245-11	FERRITE	0µH		
R803	1-500-245-11	FERRITE	0µH		
R804	1-500-245-11	FERRITE	0µH		
R805	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R806	1-216-113-00	RES-CHIP	470K	5%	1/10W
R808	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R810	1-216-295-91	SHORT	0		
R811	1-216-109-00	RES-CHIP	330K	5%	1/10W
R813	1-216-117-00	RES-CHIP	680K	5%	1/10W
R814	1-216-117-00	RES-CHIP	680K	5%	1/10W
R815	1-216-025-91	RES-CHIP	100	5%	1/10W
R816	1-216-049-91	RES-CHIP	1K	5%	1/10W
R817	1-216-025-91	RES-CHIP	100	5%	1/10W
R818	1-216-025-91	RES-CHIP	100	5%	1/10W
R819	1-216-025-91	RES-CHIP	100	5%	1/10W
R820	1-216-295-91	SHORT	0		
R821	1-216-295-91	SHORT	0		
R822	1-216-295-91	SHORT	0		
R823	1-216-295-91	SHORT	0		
R824	1-216-025-91	RES-CHIP	100	5%	1/10W
R825	1-216-025-91	RES-CHIP	100	5%	1/10W
R828	1-216-049-91	RES-CHIP	1K	5%	1/10W
R829	1-216-073-00	RES-CHIP	10K	5%	1/10W
R830	1-216-041-00	RES-CHIP	470	5%	1/10W
R831	1-216-049-91	RES-CHIP	1K	5%	1/10W
R832	1-216-073-00	RES-CHIP	10K	5%	1/10W
R833	1-216-049-91	RES-CHIP	1K	5%	1/10W
R834	1-216-049-91	RES-CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R836	1-216-049-91	RES-CHIP	1K	5%	1/10W
R838	1-216-025-91	RES-CHIP	100	5%	1/10W
R839	1-216-025-91	RES-CHIP	100	5%	1/10W
R840	1-216-025-91	RES-CHIP	100	5%	1/10W
R842	1-216-025-91	RES-CHIP	100	5%	1/10W
R843	1-216-025-91	RES-CHIP	100	5%	1/10W
R844	1-216-025-91	RES-CHIP	100	5%	1/10W
R846	1-216-025-91	RES-CHIP	100	5%	1/10W
R847	1-216-033-00	RES-CHIP	220	5%	1/10W
R848	1-216-025-91	RES-CHIP	100	5%	1/10W
R849	1-216-041-00	RES-CHIP	470	5%	1/10W
R850	1-216-041-00	RES-CHIP	470	5%	1/10W
R851	1-216-041-00	RES-CHIP	470	5%	1/10W
R852	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R853	1-216-025-91	RES-CHIP	100	5%	1/10W
R854	1-216-025-91	RES-CHIP	100	5%	1/10W
R855	1-216-025-91	RES-CHIP	100	5%	1/10W
R856	1-216-033-00	RES-CHIP	220	5%	1/10W
R857	1-216-025-91	RES-CHIP	100	5%	1/10W
R858	1-216-073-00	RES-CHIP	10K	5%	1/10W
R859	1-216-081-00	RES-CHIP	22K	5%	1/10W
R860	1-216-025-91	RES-CHIP	100	5%	1/10W
R861	1-216-073-00	RES-CHIP	10K	5%	1/10W
R862	1-216-073-00	RES-CHIP	10K	5%	1/10W
R863	1-216-025-91	RES-CHIP	100	5%	1/10W
R864	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R865	1-216-025-91	RES-CHIP	100	5%	1/10W
R866	1-216-025-91	RES-CHIP	100	5%	1/10W
R867	1-216-025-91	RES-CHIP	100	5%	1/10W
R868	1-216-025-91	RES-CHIP	100	5%	1/10W
R869	1-216-025-91	RES-CHIP	100	5%	1/10W
R870	1-216-073-00	RES-CHIP	10K	5%	1/10W
R871	1-216-025-91	RES-CHIP	100	5%	1/10W
R872	1-216-025-91	RES-CHIP	100	5%	1/10W
R873	1-216-025-91	RES-CHIP	100	5%	1/10W
R874	1-216-025-91	RES-CHIP	100	5%	1/10W
R875	1-216-295-91	SHORT	0		
R876	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R877	1-208-816-11	METAL CHIP	27K	0.5%	1/10W
R878	1-216-049-91	RES-CHIP	1K	5%	1/10W
R879	1-216-295-91	SHORT	0		
R880	1-216-049-91	RES-CHIP	1K	5%	1/10W
R881	1-216-025-91	RES-CHIP	100	5%	1/10W
R882	1-216-033-00	RES-CHIP	220	5%	1/10W
R883	1-216-033-00	RES-CHIP	220	5%	1/10W
R884	1-216-049-91	RES-CHIP	1K	5%	1/10W
R885	1-216-025-91	RES-CHIP	100	5%	1/10W
R887	1-414-551-11	FERRITE	0µH		
R888	1-216-025-91	RES-CHIP	100	5%	1/10W
R891	1-216-073-00	RES-CHIP	10K	5%	1/10W
R892	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R893	1-216-073-00	RES-CHIP	10K	5%	1/10W
R894	1-216-033-00	RES-CHIP	220	5%	1/10W
R895	1-216-025-91	RES-CHIP	100	5%	1/10W
R896	1-216-121-91	RES-CHIP	1M	5%	1/10W
R897	1-216-049-91	RES-CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R898	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R899	1-216-033-00	RES-CHIP 220 5% 1/10W	
R900	1-216-025-91	RES-CHIP 100 5% 1/10W	
R901	1-216-033-00	RES-CHIP 220 5% 1/10W	
R902	1-216-033-00	RES-CHIP 220 5% 1/10W	
R903	1-216-025-91	RES-CHIP 100 5% 1/10W	
R904	1-216-033-00	RES-CHIP 220 5% 1/10W	
R905	1-216-025-91	RES-CHIP 100 5% 1/10W	
R906	1-216-025-91	RES-CHIP 100 5% 1/10W	
R907	1-216-025-91	RES-CHIP 100 5% 1/10W	
R908	1-216-025-91	RES-CHIP 100 5% 1/10W	
R910	1-216-025-91	RES-CHIP 100 5% 1/10W	
R911	1-216-025-91	RES-CHIP 100 5% 1/10W	
R912	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R913	1-216-025-91	RES-CHIP 100 5% 1/10W	
R914	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R915	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R916	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R917	1-216-025-91	RES-CHIP 100 5% 1/10W	
R918	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R919	1-216-061-00	RES-CHIP 3.3K 5% 1/10W	
R920	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R922	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R923	1-216-043-91	RES-CHIP 560 5% 1/10W	
R924	1-216-053-00	RES-CHIP 1.5K 5% 1/10W	
R925	1-216-043-91	RES-CHIP 560 5% 1/10W	
R926	1-216-053-00	RES-CHIP 1.5K 5% 1/10W	
R928	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R929	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R932	1-208-792-11	METAL CHIP 2.7K 0.5% 1/10W	
R935	1-216-025-91	RES-CHIP 100 5% 1/10W	
R936	1-216-025-91	RES-CHIP 100 5% 1/10W	
R937	1-216-025-91	RES-CHIP 100 5% 1/10W	
R938	1-208-766-11	METAL CHIP 220 0.5% 1/10W	
R939	1-208-766-11	METAL CHIP 220 0.5% 1/10W	
R941	1-216-061-00	RES-CHIP 3.3K 5% 1/10W	
R942	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R943	1-216-041-00	RES-CHIP 470 5% 1/10W	
R945	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R950	1-216-043-91	RES-CHIP 560 5% 1/10W	
R951	1-216-053-00	RES-CHIP 1.5K 5% 1/10W	
R952	1-216-049-91	RES-CHIP 1K 5% 1/10W	
R953	1-216-025-91	RES-CHIP 100 5% 1/10W	
R954	1-216-025-91	RES-CHIP 100 5% 1/10W	
R955	1-216-025-91	RES-CHIP 100 5% 1/10W	
R956	1-216-025-91	RES-CHIP 100 5% 1/10W	
R957	1-216-025-91	RES-CHIP 100 5% 1/10W	
R958	1-216-025-91	RES-CHIP 100 5% 1/10W	
R959	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R960	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R961	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R962	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R963	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R964	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R965	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R966	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R968	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R970	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R972	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R974	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R976	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
R978	1-208-810-11	METAL CHIP 15K 0.5% 1/10W	
R979	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R980	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R981	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R982	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R983	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R985	1-208-810-11	METAL CHIP 15K 0.5% 1/10W	
R987	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R989	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R991	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R993	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R994	1-208-817-11	METAL CHIP 30K 0.5% 1/10W	
R996	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R997	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R998	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R999	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R1000	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R1001	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R1002	1-208-810-11	METAL CHIP 15K 0.5% 1/10W	
R1003	1-208-818-11	METAL CHIP 33K 0.5% 1/10W	
R1010	1-216-295-91	SHORT 0	
R1011	1-216-295-91	SHORT 0	
R1012	1-216-295-91	SHORT 0	
R1013	1-216-295-91	SHORT 0	
R1014	1-216-295-91	SHORT 0	
R1015	1-216-295-91	SHORT 0	
R1101	1-216-041-00	RES-CHIP 470 5% 1/10W	
R1102	1-216-041-00	RES-CHIP 470 5% 1/10W	
R1103	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1106	1-216-041-00	RES-CHIP 470 5% 1/10W	
R1107	1-216-041-00	RES-CHIP 470 5% 1/10W	
R1108	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1109	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1110	1-216-089-91	RES-CHIP 47K 5% 1/10W	
R1111	1-216-025-91	RES-CHIP 100 5% 1/10W	
R1112	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1113	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1114	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1115	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1116	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1117	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1118	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1119	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1120	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1121	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1122	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1123	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1124	1-216-022-00	RES-CHIP 75 5% 1/10W	
R1126	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1127	1-216-113-00	RES-CHIP 470K 5% 1/10W	
R1128	1-216-019-00	RES-CHIP 56 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1129	1-216-017-91	RES-CHIP	47	5%	1/10W
R1130	1-216-025-91	RES-CHIP	100	5%	1/10W
R1131	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1132	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1135	1-216-041-00	RES-CHIP	470	5%	1/10W
R1136	1-216-041-00	RES-CHIP	470	5%	1/10W
R1137	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1138	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1139	1-216-041-00	RES-CHIP	470	5%	1/10W
R1140	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1141	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1142	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1143	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1144	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1147	1-216-041-00	RES-CHIP	470	5%	1/10W
R1148	1-216-041-00	RES-CHIP	470	5%	1/10W
R1150	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1151	1-216-105-91	RES-CHIP	220K	5%	1/10W
R1156	1-216-025-91	RES-CHIP	100	5%	1/10W
R1157	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1158	1-216-025-91	RES-CHIP	100	5%	1/10W
R1159	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1160	1-216-025-91	RES-CHIP	100	5%	1/10W
R1161	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1162	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1163	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1164	1-216-093-91	RES-CHIP	68K	5%	1/10W
R1165	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1166	1-216-097-91	RES-CHIP	100K	5%	1/10W
R1167	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1168	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1169	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1170	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1171	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1172	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1173	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1174	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1175	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1180	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1182	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1183	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1184	1-208-766-11	METAL CHIP	220	0.5%	1/10W
R1187	1-216-025-91	RES-CHIP	100	5%	1/10W
R1188	1-216-025-91	RES-CHIP	100	5%	1/10W
R1191	1-216-025-91	RES-CHIP	100	5%	1/10W
R1193	1-216-041-00	RES-CHIP	470	5%	1/10W
R1197	1-216-041-00	RES-CHIP	470	5%	1/10W
R1202	1-216-025-91	RES-CHIP	100	5%	1/10W
R1203	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1204	1-216-025-91	RES-CHIP	100	5%	1/10W
R1205	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1206	1-216-025-91	RES-CHIP	100	5%	1/10W
R1207	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1208	1-216-025-91	RES-CHIP	100	5%	1/10W
R1209	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1210	1-216-025-91	RES-CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1211	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1212	1-216-025-91	RES-CHIP	100	5%	1/10W
R1213	1-216-025-91	RES-CHIP	100	5%	1/10W
R1214	1-216-025-91	RES-CHIP	100	5%	1/10W
R1215	1-216-025-91	RES-CHIP	100	5%	1/10W
R1216	1-216-025-91	RES-CHIP	100	5%	1/10W
R1217	1-216-025-91	RES-CHIP	100	5%	1/10W
R1218	1-216-025-91	RES-CHIP	100	5%	1/10W
R1221	1-216-025-91	RES-CHIP	100	5%	1/10W
R1222	1-216-295-91	SHORT	0		
R1223	1-216-025-91	RES-CHIP	100	5%	1/10W
R1601	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1603	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1604	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1605	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R1607	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1609	1-216-025-91	RES-CHIP	100	5%	1/10W
R1610	1-216-025-91	RES-CHIP	100	5%	1/10W
R1614	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1615	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R1616	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1617	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1618	1-216-033-00	RES-CHIP	220	5%	1/10W
R1619	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1621	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1622	1-216-033-00	RES-CHIP	220	5%	1/10W
R1623	1-216-025-91	RES-CHIP	100	5%	1/10W
R1624	1-216-025-91	RES-CHIP	100	5%	1/10W
R1627	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1701	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1702	1-216-047-91	RES-CHIP	820	5%	1/10W
R1703	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1704	1-216-114-00	RES-CHIP	510K	5%	1/10W
R1706	1-216-469-11	METAL OXIDE	12	5%	3W
R1707	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1708	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R1711	1-216-295-91	SHORT	0		
R1712	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R1714	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1715	1-216-295-91	SHORT	0		
R1717	1-216-295-91	SHORT	0		
R1720	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R1721	1-208-757-11	METAL CHIP	91	0.5%	1/10W
R1722	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R1724	1-216-041-00	RES-CHIP	470	5%	1/10W
R1725	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1726	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1727	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R1728	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R1729	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R1730	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R1736	1-216-041-00	RES-CHIP	470	5%	1/10W
R1738	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R1739	1-216-049-91	RES-CHIP	1K	5%	1/10W
R1741	1-216-041-00	RES-CHIP	470	5%	1/10W
R1742	1-216-049-91	RES-CHIP	1K	5%	1/10W

A

REF. NO.	PART NO.	DESCRIPTION				REMARK
R1743	1-208-768-11	METAL CHIP	240	0.5%	1/10W	
R1745	1-208-772-11	METAL CHIP	390	0.5%	1/10W	
R1746	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1747	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1901	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1902	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1903	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1904	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1905	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1906	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1907	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1908	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1909	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1910	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R1911	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1912	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R1913	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R1914	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1915	1-216-033-00	RES-CHIP	220	5%	1/10W	
R1916	1-216-045-00	RES-CHIP	680	5%	1/10W	
R1917	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R1918	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1919	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1920	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1921	1-216-109-00	RES-CHIP	330K	5%	1/10W	
R1923	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1924	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1925	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1926	1-208-774-11	METAL CHIP	470	0.5%	1/10W	
R1927	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1928	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1929	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W	
R1930	1-216-295-91	SHORT	0			
R1931	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	
R1932	1-216-077-91	RES-CHIP	15K	5%	1/10W	
R1933	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1934	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1935	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1936	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	
R1937	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1938	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1939	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1940	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1941	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1942	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1943	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	
R1944	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R1945	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1947	1-216-295-91	SHORT	0			
R1948	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1949	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1950	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1951	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R1952	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1953	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1954	1-216-025-91	RES-CHIP	100	5%	1/10W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R1955	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R1956	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	
R1957	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1958	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R1959	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1960	1-208-778-11	METAL CHIP	680	0.5%	1/10W	
R1961	1-208-778-11	METAL CHIP	680	0.5%	1/10W	
R1962	1-208-778-11	METAL CHIP	680	0.5%	1/10W	
R1963	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	
R1964	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1965	1-216-025-91	RES-CHIP	100	5%	1/10W	
R1966	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1967	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1968	1-216-049-91	RES-CHIP	1K	5%	1/10W	
R1969	1-208-774-11	METAL CHIP	470	0.5%	1/10W	
R1970	1-208-780-11	METAL CHIP	820	0.5%	1/10W	
R1972	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R1974	1-216-097-91	RES-CHIP	100K	5%	1/10W	
R1975	1-216-041-00	RES-CHIP	470	5%	1/10W	
R1976	1-208-776-11	METAL CHIP	560	0.5%	1/10W	
R1977	1-216-075-00	RES-CHIP	12K	5%	1/10W	
R1978	1-216-081-00	RES-CHIP	22K	5%	1/10W	
R1979	1-216-033-00	RES-CHIP	220	5%	1/10W	
R1980	1-216-033-00	RES-CHIP	220	5%	1/10W	
R1981	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R1982	1-216-097-91	RES-CHIP	100K	5%	1/10W	
R1983	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W	

<TUNER>

TU151	8-598-431-00	TUNER, FSS BTF-WA411	
TU152	8-598-430-00	TUNER, FSS BTF-FA401	

<CRYSTAL>

X001	1-781-589-21	VIBRATOR, CRYSTAL 16MHz	
X202	1-567-505-11	OSCILLATOR, CRYSTAL 3.58MHz	
X203	1-579-583-11	VIBRATOR, CERAMIC 503.5kHz	
X801	1-767-925-21	VIBRATOR, CRYSTAL 12MHz	
X1901	1-579-583-11	VIBRATOR, CERAMIC 503.5kHz	
X1902	1-567-505-11	OSCILLATOR, CRYSTAL 3.58MHz	
X1903	1-760-095-21	VIBRATOR, CRYSTAL 20.48MHz	

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Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

G

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1316-437-A	G BOARD, COMPLETE (53S75/53N77)			
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	* A-1316-471-A	G BOARD, COMPLETE (48S75/61S75)			
		*********************			
	* A-1316-475-A	G BOARD, COMPLETE (43T75)			
		*********************			
	* A-1316-498-A	G BOARD, COMPLETE (61S75 Serial No. 9,500,001-)			
		*********************			
	* A-1316-499-A	G BOARD, COMPLETE (53S75 Serial No. 9,500,001-)			
		*********************			
	1-533-223-11	HOLDER, FUSE			
	* 4-039-590-01	SHIELD, TRANSFORMER			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-682-952-09	SCREW +PSW 3X16			
		<CAPACITOR>			
C501	1-126-959-11	ELECT	0.47μF	20%	50V
C502	1-102-002-00	CERAMIC	680pF	10%	500V
C505	1-106-383-00	MYLAR	0.047μF	10%	200V
C506	1-102-212-00	CERAMIC	820pF	10%	500V
C508	1-102-002-00	CERAMIC	680pF	10%	500V
C510	1-130-471-00	MYLAR	0.001μF	5%	50V
C513	1-126-933-11	ELECT	100μF	20%	16V
C514	1-130-495-00	MYLAR	0.1μF	5%	50V
C515	1-126-960-11	ELECT	1μF	20%	50V
C516	1-126-965-11	ELECT	22μF	20%	50V
⧓ C517 ⚠		CERAMIC			2KV
C518	1-130-487-00	MYLAR	0.022μF	5%	50V
C521 ⚠	1-128-660-91	FILM	0.039μF	3%	630V
C522 ⚠	1-117-658-11	FILM	14000pF	3%	1.2KV
C525	1-136-479-11	FILM	0.001μF	5%	50V
C526	1-130-475-00	MYLAR	0.0022μF	5%	50V
C527	1-129-702-00	FILM	0.001μF	5%	630V
C529	1-130-495-00	MYLAR	0.1μF	5%	50V
C531	1-117-673-11	FILM	1.5μF	5%	250V
C533	1-106-359-00	MYLAR	0.0047μF	5%	100V
C534	1-162-116-00	CERAMIC	680pF	10%	2KV
C535	1-162-116-00	CERAMIC	680pF	10%	2KV
C536	1-126-965-11	ELECT	22μF	20%	50V
C537	1-102-244-00	CERAMIC	220pF	10%	500V
C538	1-106-359-00	MYLAR	0.0047μF	5%	100V
C540	1-107-645-11	ELECT	22μF	20%	160V
C542	1-102-228-00	CERAMIC	470pF	10%	500V
C543	1-117-813-11	FILM	0.75μF	5%	250V
C544	1-110-626-11	ELECT	330μF	20%	160V
C545	1-162-114-00	CERAMIC	0.0047μF		2KV
C546	1-107-649-11	ELECT	2.2μF	20%	250V
C547	1-126-971-11	ELECT	470μF	20%	50V
C548	1-104-665-11	ELECT	100μF	20%	25V
C549	1-130-489-00	MYLAR	0.033μF	5%	50V
C550	1-104-665-11	ELECT	100μF	20%	25V
C551	1-126-971-11	ELECT	470μF	20%	50V
C552	1-130-489-00	MYLAR	0.033μF	5%	50V
C553	1-126-935-11	ELECT	470μF	20%	16V
C554	1-126-935-11	ELECT	470μF	20%	16V
C555	1-104-665-11	ELECT	100μF	20%	25V
C556	1-104-665-11	ELECT	100μF	20%	25V
C557	1-128-562-11	ELECT	47μF	20%	100V
C563	1-104-664-11	ELECT	47μF	20%	25V
C564	1-102-129-00	CERAMIC	0.01μF	10%	50V
C565	1-102-129-00	CERAMIC	0.01μF	10%	50V
C566	1-104-666-11	ELECT	220μF	20%	25V
C567	1-106-387-00	MYLAR	0.068μF	5%	200V
C601 ⚠	1-136-311-11	MYLAR	0.47μF	20%	125V
C602	1-129-722-00	FILM	0.047μF	5%	630V
C604 ⚠	1-113-920-11	CERAMIC	0.0022μF	20%	250V
C606 ⚠	1-113-920-11	CERAMIC	0.0022μF	20%	250V
C607 ⚠	1-136-311-11	MYLAR	0.47μF	20%	125V
C608	1-107-670-11	ELECT	10μF	20%	400V
C609	1-130-467-00	MYLAR	470pF	5%	50V
C610	1-130-471-00	MYLAR	0.001μF	5%	50V
C611	1-104-350-11	ELECT(BLOCK)	1000μF	20%	250V
C612	1-104-350-11	ELECT(BLOCK)	1000μF	20%	250V
C613	1-136-165-00	MYLAR	0.1μF	5%	50V
C614	1-130-467-00	MYLAR	470pF	5%	50V
C615	1-104-331-11	CERAMIC	0.0022μF	10%	1KV
C616	1-130-471-00	MYLAR	0.001μF	5%	50V
C617	1-137-605-11	MYLAR	0.01μF	10%	250V
C618	1-126-965-11	ELECT	22μF	20%	50V
C619	1-104-664-11	ELECT	47μF	20%	16V
C620	1-136-175-00	MYLAR	0.68μF	5%	50V
C621	1-136-175-00	MYLAR	0.68μF	5%	50V
C622	1-136-171-00	MYLAR	0.33μF	5%	50V
C623	1-136-171-00	MYLAR	0.33μF	5%	50V
C624	1-104-330-91	CERAMIC	470pF	10%	1KV
C625	1-104-664-11	ELECT	47μF	20%	16V
C626	1-104-664-11	ELECT	47μF	20%	16V
C651	1-164-644-11	CERAMIC	330pF	10%	500V
C654	1-126-953-11	ELECT	2200μF	20%	35V
C655	1-126-953-11	ELECT	2200μF	20%	35V
C656	1-102-121-00	CERAMIC	0.0022μF	10%	50V
C657	1-126-768-11	ELECT	2200μF	20%	16V
C658	1-126-943-11	ELECT	2200μF	20%	25V
C659	1-126-943-11	ELECT	2200μF	20%	25V
C662	1-123-024-21	ELECT	33μF		160V
C663	1-104-665-11	ELECT	100μF	20%	25V
C664	1-107-910-11	ELECT	100μF	20%	35V
C665	1-126-934-11	ELECT	220μF	20%	10V
C666	1-126-927-11	ELECT	2200μF	20%	10V
C667	1-104-664-11	ELECT	47μF	20%	25V
C668	1-104-664-11	ELECT	47μF	20%	25V
C669	1-104-664-11	ELECT	47μF	20%	25V
C670	1-106-343-00	MYLAR	0.001μF	10%	200V
C671	1-106-343-00	MYLAR	0.001μF	10%	200V
C672	1-104-664-11	ELECT	47μF	20%	25V
C673	1-126-960-11	ELECT	1μF	20%	50V
C674	1-104-664-11	ELECT	47μF	20%	25V
C676	1-126-940-11	ELECT	330μF	20%	25V
C678	1-104-665-11	ELECT	100μF	20%	25V
C679	1-104-664-11	ELECT	47μF	20%	25V
C680	1-128-551-11	ELECT	22μF	20%	25V

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1501	1-130-495-00	MYLAR	0.1μF	5%	50V
C1502	1-126-941-11	ELECT	470μF	20%	25V
C1504	1-102-106-00	CERAMIC	100pF	10%	50V
C1505	1-104-664-11	ELECT	47μF	20%	25V
C1506	1-102-106-00	CERAMIC	100pF	10%	50V
C1507	1-126-942-61	ELECT	1000μF	20%	25V
C1508	1-102-121-00	CERAMIC	0.0022μF	10%	50V
C1510	1-126-941-11	ELECT	470μF	20%	25V
C1511	1-126-964-11	ELECT	10μF	20%	50V
C1512	1-126-933-11	ELECT	100μF	20%	16V
C1513	1-126-964-11	ELECT	10μF	20%	50V
C1516	1-104-665-11	ELECT	100μF	20%	25V
C1517	1-130-471-00	MYLAR	0.001μF	5%	50V
C1518	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1519	1-102-106-00	CERAMIC	100pF	10%	50V
C1520	1-126-933-11	ELECT	100μF	20%	16V
C1521	1-126-941-11	ELECT	470μF	20%	25V
C1522	1-126-941-11	ELECT	470μF	20%	25V
C1523	1-126-964-11	ELECT	10μF	20%	50V
C1524	1-102-106-00	CERAMIC	100pF	10%	50V
C1525	1-102-852-91	CERAMIC	47pF	5%	50V
C1526	1-136-177-00	MYLAR	1μF	5%	50V
C1527	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1528	1-126-941-11	ELECT	470μF	20%	25V
C1530	1-102-106-00	CERAMIC	100pF	10%	50V
C1531	1-102-106-00	CERAMIC	100pF	10%	50V
C1533	1-126-941-11	ELECT	470μF	20%	25V
C1534	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1536	1-102-106-00	CERAMIC	100pF	10%	50V
C1537	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1538	1-126-941-11	ELECT	470μF	20%	25V
C1539	1-104-665-11	ELECT	100μF	20%	25V
C1540	1-126-941-11	ELECT	470μF	20%	25V
C1541	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1542	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1543	1-102-129-00	CERAMIC	0.01μF	10%	50V
C1544	1-102-129-00	CERAMIC	0.01μF	10%	50V
C1545	1-126-933-11	ELECT	100μF	20%	16V
C1546	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1547	1-130-487-00	MYLAR	0.022μF	5%	50V
C1548	1-136-177-00	MYLAR	1μF	5%	50V
C1549	1-130-471-00	MYLAR	0.001μF	5%	50V
C1550	1-104-665-11	ELECT	100μF	20%	25V
C1551	1-102-121-00	CERAMIC	0.0022μF	10%	50V
C1552	1-106-220-00	MYLAR	0.1μF	5%	100V
C1555	1-104-665-11	ELECT	100μF	20%	25V
C1556	1-104-665-11	ELECT	100μF	20%	25V
C1557	1-126-969-11	ELECT	220μF	20%	50V
C1559	1-137-401-11	MYLAR	0.22μF	5%	100V
C1560	1-126-942-61	ELECT	1000μF	20%	25V
C1561	1-102-121-00	CERAMIC	0.0022μF	10%	50V
C1562	1-102-125-00	CERAMIC	0.0047μF	10%	50V
C1563	1-137-370-11	MYLAR	0.01μF	5%	50V
C1566	1-137-370-11	MYLAR	0.01μF	5%	50V
C1570	1-130-471-00	MYLAR	0.001μF	5%	50V
C1571	1-102-074-00	CERAMIC	0.001μF	10%	50V
C1572	1-102-074-00	CERAMIC	0.001μF	10%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN501	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN502	* 1-506-371-00	PIN, CONNECTOR 2P	
CN503	* 1-564-513-11	PLUG, CONNECTOR 10P	
CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN505	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN506	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN507	* 1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	
CN508	1-695-915-11	TAB (CONTACT)	(53S75/61S75 Serial No. 9,500,001-)
CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN605	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN651	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN652	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN653	1-695-915-11	TAB (CONTACT)	
CN1501	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1502	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN1503	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1504	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1505	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1506	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1507	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1508	* 1-564-506-11	PLUG, CONNECTOR 3P	
		<DIODE>	
D501	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D505	8-719-110-41	DIODE MTZJ-T-77-15B	
D506	8-719-921-63	DIODE MTZJ-T-77-7.5B	
D507	8-719-991-33	DIODE 1SS133T-77	
D513	8-719-991-33	DIODE 1SS133T-77	
D517	8-719-979-85	DIODE RGP15J-6040G23	
D518	8-719-945-80	DIODE ERC06-15S	
D520	8-719-302-43	DIODE RGP10GPKG23	
D522 ⚠	8-719-302-43	DIODE EL1Z-V1	
D525	8-719-018-82	DIODE RGP02-20EL-6394	
D526	8-719-018-82	DIODE RGP02-20EL-6394	
D528	8-719-908-03	DIODE GP08DPKG23	
D529	8-719-302-43	DIODE RGP10GPKG23	
D530	8-719-991-33	DIODE 1SS133T-77	
D531	8-719-991-33	DIODE 1SS133T-77	
D532	8-719-908-03	DIODE GP08DPKG23	
D533	8-719-302-43	DIODE RGP10GPKG23	
D534	8-719-302-43	DIODE RGP10GPKG23	
D601	8-719-068-00	DIODE ERC04-06SE	
D602	8-719-068-00	DIODE ERC04-06SE	
D603 ⚠	8-719-510-53	DIODE D4SB60L-F	
D604	8-719-110-41	DIODE MTZJ-T-77-15B	
D605	8-719-110-49	DIODE MTZJ-T-77-18B	
D607	8-719-991-33	DIODE 1SS133T-77	
D609	8-719-948-45	DIODE ERA22-08TP3	
D610	8-719-510-48	DIODE D1N20R-TA	
D650	8-719-028-45	DIODE D2L20U-F	
D651	8-719-063-70	DIODE D1NL20U-TA	
D652	8-719-028-45	DIODE D2L20U-F	
D653	8-719-028-45	DIODE D2L20U-F	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
D654	8-719-057-96	DIODE D10SC6M-4012	
D655	8-719-052-91	DIODE D4SBS4-F	
D656	8-719-028-45	DIODE D2L20U-F	
D657	8-719-028-45	DIODE D2L20U-F	
D658	8-719-063-70	DIODE D1NL20U-TA	
D659	8-719-063-70	DIODE D1NL20U-TA	
D660	8-719-028-45	DIODE D2L20U-F	
D661	8-719-991-33	DIODE 1SS133T-77	
D662	8-719-991-33	DIODE 1SS133T-77	
D663	8-719-991-33	DIODE 1SS133T-77	
D664	8-719-981-94	DIODE MTZJ-T-77-2.7A	
D665	8-719-991-33	DIODE 1SS133T-77	
D666	8-719-991-33	DIODE 1SS133T-77	
D667	8-719-032-12	DIODE D1NS6-TR	
D668	8-719-110-61	DIODE MTZJ-T-77-24A	
D669	8-719-921-86	DIODE MTZJ-T-77-13	
D670	8-719-027-22	DIODE D3S6M-F	
D671	8-719-027-22	DIODE D3S6M-F	
D672	8-719-200-82	DIODE 11ES2-TA2B	
D673	8-719-991-33	DIODE 1SS133T-77	
D674	8-719-991-33	DIODE 1SS133T-77	
D675	8-719-110-17	DIODE MTZJ-T-77-10B	
D676	8-719-109-72	DIODE MTZJ-T-77-3.9B	
D677	8-719-991-33	DIODE 1SS133T-77	
D680	8-719-991-33	DIODE 1SS133T-77	
D1501	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D1503	8-719-921-40	DIODE MTZJ-T-77-4.7B	
D1504	8-719-110-08	DIODE MTZJ-T-77-8.2B	
D1505	8-719-110-41	DIODE MTZJ-T-77-15B	
D1506	8-719-110-41	DIODE MTZJ-T-77-15B	
D1507	8-719-110-41	DIODE MTZJ-T-77-15B	
D1509	8-719-110-41	DIODE MTZJ-T-77-15B	
D1510	8-719-110-41	DIODE MTZJ-T-77-15B	
D1513	8-719-110-41	DIODE MTZJ-T-77-15B	
D1515	8-719-110-41	DIODE MTZJ-T-77-15B	
D1520	8-719-109-93	DIODE MTZJ-T-77-6.2B	
D1521	8-719-109-93	DIODE MTZJ-T-77-6.2B	
D1522	8-719-924-16	DIODE MTZJ-T-77-24	
D1523	8-719-924-16	DIODE MTZJ-T-77-24	
D1525	8-719-908-03	DIODE GP08DPKG23	
JW168	8-719-018-82	DIODE RGP02-20EL-6394	
		<FUSE>	
F601 ⚠	1-576-193-11	FUSE 6.3A/125V	
F651 ⚠	1-576-360-21	FUSE, MULTIPLE 4A	
F652 ⚠	1-576-360-21	FUSE, MULTIPLE 4A	
		<FERRITE BEAD>	
FB651	1-410-396-41	FERRITE 0.45µH	
FB655	1-410-396-41	FERRITE 0.45µH	
FB656	1-410-396-41	FERRITE 0.45µH	
FB657	1-410-396-41	INDUCTOR 0.45µH	
		<IC>	
IC502	8-759-133-90	IC µPC339C	
IC601 ⚠	8-729-045-39	TRANSISTOR MX0842AB-F	
IC651	8-759-103-93	IC µPC393C	
IC652	8-759-701-84	IC NJM7905FA	
IC653	8-759-701-75	IC NJM7805FA	
IC654 ⚠	8-749-012-13	IC DM-58	
IC655	8-759-450-47	IC BA05T	
IC1501	8-752-068-36	IC CXA1726AS	
IC1502	8-749-014-37	IC STK392-150	
IC1504	8-759-634-51	IC NJM4558D	
IC1505	8-759-634-51	IC NJM4558D	
IC1506	8-749-014-37	IC STK392-150	
IC1507	8-759-634-51	IC NJM4558D	
IC1509	8-759-593-33	IC LA78045	
		<COIL>	
L501	1-412-533-21	INDUCTOR 47µH	
L502	1-414-187-11	INDUCTOR 47µH	
L503	1-459-104-00	COIL, DUST CORE	
L504 ⚠	1-419-082-11	COIL, HORIZONTAL LINEARITY	
L505	1-412-552-11	INDUCTOR 2.2mH	
L601 ⚠	1-433-900-11	TRANSFORMER, LINE FILTER	
L651	1-419-389-21	INDUCTOR 8.2µH	
L652	1-419-389-21	INDUCTOR 8.2µH	
L653	1-406-975-21	INDUCTOR 47µH	
L654	1-410-396-41	FERRITE 0.45µH	
L655	1-410-396-41	FERRITE 0.45µH	
L656	1-412-525-31	INDUCTOR 10µH	
L657	1-412-525-31	INDUCTOR 10µH	
L658	1-412-525-31	INDUCTOR 10µH	
L659	1-412-521-31	INDUCTOR 4.7µH	
L660	1-412-521-31	INDUCTOR 4.7µH	
L1501	1-412-533-21	INDUCTOR 47µH	
L1502	1-412-533-21	INDUCTOR 47µH	
L1509	1-412-533-21	INDUCTOR 47µH	
L1510	1-412-533-21	INDUCTOR 47µH	
L1511	1-412-533-21	INDUCTOR 47µH	
L1512	1-412-533-21	INDUCTOR 47µH	
L1513	1-412-525-31	INDUCTOR 10µH	
L1514	1-412-911-11	FERRITE 0µH	
L1515	1-412-911-11	FERRITE 0µH	
		<NEON LAMP>	
NL501	1-517-778-21	LAMP, NEON	
NL502	1-517-778-21	LAMP, NEON	
NL503	1-517-778-21	LAMP, NEON	
NL504	1-517-778-21	LAMP, NEON	
NL505	1-517-778-21	LAMP, NEON	
		<IC LINK>	
PS501	1-533-593-11	LINK, IC	
PS1501	1-533-593-11	LINK, IC	
PS1502	1-533-593-11	LINK, IC	
PS1503	1-533-593-11	LINK, IC	
PS1504	1-533-593-11	LINK, IC	

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- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
PS1505	1-533-593-11	LINK, IC			
PS1506	1-533-593-11	LINK, IC			

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q501	8-729-048-47	TRANSISTOR	2SC2688(5)-LK		
Q502	8-729-048-46	TRANSISTOR	2SD2578-RF		
Q503	8-729-931-45	TRANSISTOR	IRF614-LF		
Q505	8-729-032-61	TRANSISTOR	2SC5022-02		
Q506	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q507	8-729-032-61	TRANSISTOR	2SC5022-02		
Q601	8-729-046-40	TRANSISTOR	2SK2663		
Q602	8-729-922-39	TRANSISTOR	2SD2144S-TP-V		
Q651	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q652	8-729-922-39	TRANSISTOR	2SD2144S-TP-V		
Q653	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q654	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q655	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q656	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q657	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q658	8-729-119-76	TRANSISTOR	2SA1309A-RTA		
Q1501	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q1502	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q1503	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q1505	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q1506	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q1508	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q1509	8-729-119-76	TRANSISTOR	2SA1309A-QRSTA		
Q1511	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R501	1-247-843-11	CARBON	3.3K	5%	1/4W
R502	1-249-419-11	CARBON	1.5K	5%	1/4W
R503	1-260-336-11	CARBON	4.7K	5%	1/2W
R504	1-260-087-11	CARBON	100	5%	1/2W
R505	1-260-087-11	CARBON	100	5%	1/2W
R506	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R507	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R508	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R509	1-260-337-11	CARBON	5.6K	5%	1/2W
R510	1-249-421-11	CARBON	2.2K	5%	1/4W
R511	1-215-879-11	METAL OXIDE	47K	5%	1W
R512	1-249-422-11	CARBON	2.7K	5%	1/4W
R513	1-249-422-11	CARBON	2.7K	5%	1/4W
R514	1-249-422-11	CARBON	2.7K	5%	1/4W
R515	1-260-131-11	CARBON	470K	5%	1/2W
R517	1-247-891-00	CARBON	330K	5%	1/4W
R519	1-215-445-00	METAL	10K	1%	1/4W
R522	1-215-399-00	METAL	120	1%	1/4W
R523	1-247-895-91	CARBON	470K	5%	1/4W
R524	1-247-863-91	CARBON	22K	5%	1/4W
R525	1-249-428-11	CARBON	8.2K	5%	1/4W
R526	1-249-437-11	CARBON	47K	5%	1/4W
R527	1-249-428-11	CARBON	8.2K	5%	1/4W
R528	1-249-437-11	CARBON	47K	5%	1/4W
R529	1-249-439-11	CARBON	68K	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R530	1-249-428-11	CARBON	8.2K	5%	1/4W
R531	1-249-429-11	CARBON	10K	5%	1/4W
R532	1-249-430-11	CARBON	12K	5%	1/4W
R535	1-247-887-00	CARBON	220K	5%	1/4W
⧓ R536	⚠	METAL			1/4W
R537	1-247-863-91	CARBON	22K	5%	1/4W
R538	1-215-443-00	METAL	8.2K	1%	1/4W
R542	1-249-424-11	CARBON	3.9K	5%	1/4W
R543	1-260-135-11	CARBON	1M	5%	1/2W
R544	1-249-405-11	CARBON	100	5%	1/4W
⧓ R545	⚠	METAL			1/4W
R546	1-215-456-00	METAL	30K	1%	1/4W
R548	1-215-449-00	METAL	15K	1%	1/4W
R550	1-215-910-00	METAL OXIDE	68	5%	3W
R551	1-215-910-00	METAL OXIDE	68	5%	3W
R556	1-249-437-11	CARBON	47K	5%	1/4W
R563	1-247-887-00	CARBON	220K	5%	1/4W
R566	1-215-868-00	METAL OXIDE	680	5%	1W
R567	1-249-437-11	CARBON	47K	5%	1/4W
R568	1-249-405-11	CARBON	100	5%	1/4W
R569	1-260-314-11	CARBON	68	5%	1/2W
R570	1-247-807-31	CARBON	100	5%	1/4W
R571	1-215-917-11	METAL OXIDE	1K	5%	3W
R572	1-216-490-11	METAL OXIDE	39K	5%	3W
R573	1-214-912-00	METAL	91K	1%	1/2W
R574	1-216-490-11	METAL OXIDE	39K	5%	3W
R575	1-247-863-91	CARBON	22K	5%	1/4W
R576	1-247-881-00	CARBON	120K	5%	1/4W
R577	1-214-923-00	METAL	270K	1%	1/2W
R578	1-216-490-11	METAL OXIDE	39K	5%	3W
R579	1-216-490-11	METAL OXIDE	39K	5%	3W
R580	1-249-413-11	CARBON	470	5%	1/4W
R581	1-247-807-31	CARBON	100	5%	1/4W
R582	1-260-292-11	CARBON	1	5%	1/2W
R583	1-260-117-11	CARBON	33K	5%	1/2W
R584	1-249-377-11	CARBON	0.47	5%	1/4W
R586	1-215-862-11	METAL OXIDE	68	5%	1W
					(48S75/61S75)
R586	1-215-863-11	METAL OXIDE	100	5%	1W
					(43T75)
R586	1-215-864-00	METAL OXIDE	150	5%	1W
					(53N77/53S75)
R587	1-216-349-00	METAL OXIDE	1	5%	1W
R588	1-215-862-11	METAL OXIDE	68	5%	1W
					(48S75/61S75)
R588	1-215-863-11	METAL OXIDE	100	5%	1W
					(43T75)
R588	1-215-864-00	METAL OXIDE	150	5%	1W
					(53N77/53S75)
R589	1-247-807-31	CARBON	100	5%	1/4W
R590	1-260-127-11	CARBON	220K	5%	1/2W
R591	1-216-391-11	METAL OXIDE	1.5	5%	3W
					(53S75/61S75 Serial No. 9,500,001-)
R591	1-216-392-11	METAL OXIDE	1.8	5%	3W
					(EXCET 53S75/61S75 Serial No. 9,500,001-)
R592	1-247-863-91	CARBON	22K	5%	1/4W
R593	1-249-429-11	CARBON	10K	5%	1/4W

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Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R594	1-249-377-11	CARBON	0.47	5%	1/4W
R595	1-249-377-11	CARBON	0.47	5%	1/4W
R596	1-249-377-11	CARBON	0.47	5%	1/4W
R597	1-260-288-11	CARBON	0.47	5%	1/2W
R598	1-249-377-11	CARBON	0.47	5%	1/4W
R599	1-249-429-11	CARBON	10K	5%	1/4W
R600	1-247-863-91	CARBON	22K	5%	1/4W
R601	⚠ 1-219-776-11	CARBON	2.2M	10%	1/2W
R602	⚠ 1-219-759-11	CARBON	1M	5%	1/2W
R603	⚠ 1-240-881-11	CMT-MELF	0.82	5%	20W
R604	1-260-298-51	CARBON	3.3	5%	1/2W
R605	1-249-415-11	CARBON	680	5%	1/4W
R606	⚠ 1-240-881-11	CMT-MELF	0.82	5%	20W
R607	1-249-389-11	CARBON	4.7	5%	1/4W
R608	1-247-791-91	CARBON	22	5%	1/4W
R609	1-240-205-91	CARBON	22M	5%	1/2W
R610	1-260-127-11	CARBON	220K	5%	1/2W
R611	1-260-127-11	CARBON	220K	5%	1/2W
R612	⚠ 1-202-933-61	FUSIBLE	0.1	10%	1/2W
R613	1-249-413-11	CARBON	470	5%	1/4W
R615	1-249-437-11	CARBON	47K	5%	1/4W
R616	1-249-421-11	CARBON	2.2K	5%	1/4W
R617	1-216-349-00	METAL OXIDE	1	5%	1W
R618	1-260-127-11	CARBON	220K	5%	1/2W
R619	1-216-349-00	METAL OXIDE	1	5%	1W
R620	1-215-493-00	METAL	1M	1%	1/4W
R621	1-260-127-11	CARBON	220K	5%	1/2W
R622	1-249-441-11	CARBON	100K	5%	1/4W
R623	1-260-127-11	CARBON	220K	5%	1/2W
R624	1-260-127-11	CARBON	220K	5%	1/2W
R652	1-249-377-11	CARBON	0.47	5%	1/4W
R654	1-216-365-00	METAL OXIDE	0.47	5%	2W
R655	1-260-288-11	CARBON	0.47	5%	1/2W
R656	1-249-377-11	CARBON	0.47	5%	1/4W
R657	1-215-421-00	METAL	1K	1%	1/4W
R658	1-249-429-11	CARBON	10K	5%	1/4W
R659	1-215-446-00	METAL	11K	1%	1/4W
R660	1-215-439-00	METAL	5.6K	1%	1/4W
R661	1-215-481-00	METAL	330K	1%	1/4W
R662	1-215-445-00	METAL	10K	1%	1/4W
R663	1-215-445-00	METAL	10K	1%	1/4W
R664	1-249-425-11	CARBON	4.7K	5%	1/4W
R665	1-249-425-11	CARBON	4.7K	5%	1/4W
R666	1-247-887-00	CARBON	220K	5%	1/4W
R667	1-249-425-11	CARBON	4.7K	5%	1/4W
R668	1-249-429-11	CARBON	10K	5%	1/4W
R669	1-247-807-31	CARBON	100	5%	1/4W
R670	1-249-417-11	CARBON	1K	5%	1/4W
R671	1-249-429-11	CARBON	10K	5%	1/4W
R672	1-249-417-11	CARBON	1K	5%	1/4W
R673	1-249-425-11	CARBON	4.7K	5%	1/4W
R675	1-249-429-11	CARBON	10K	5%	1/4W
R676	1-249-417-11	CARBON	1K	5%	1/4W
R677	1-249-417-11	CARBON	1K	5%	1/4W
R678	1-249-425-11	CARBON	4.7K	5%	1/4W
R679	1-247-807-31	CARBON	100	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R680	1-249-429-11	CARBON	10K	5%	1/4W
R681	1-249-429-11	CARBON	10K	5%	1/4W
R682	1-249-417-11	CARBON	1K	5%	1/4W
R683	1-249-417-11	CARBON	1K	5%	1/4W
R684	1-249-425-11	CARBON	4.7K	5%	1/4W
R685	1-249-417-11	CARBON	1K	5%	1/4W
R686	1-215-445-00	METAL	10K	1%	1/4W
R687	1-215-429-00	METAL	2.2K	1%	1/4W
R688	1-215-429-00	METAL	2.2K	1%	1/4W
R689	1-249-417-11	CARBON	1K	5%	1/4W
R690	1-215-437-00	METAL	4.7K	1%	1/4W
R691	1-249-417-11	CARBON	1K	5%	1/4W
R1501	1-214-800-11	METAL	2.2	1%	1/2W
R1502	1-214-800-11	METAL	2.2	1%	1/2W
R1503	1-215-421-00	METAL	1K	1%	1/4W
R1504	1-215-433-00	METAL	3.3K	1%	1/4W
R1505	1-247-815-91	CARBON	220	5%	1/4W
R1506	1-247-815-91	CARBON	220	5%	1/4W
R1507	1-215-433-00	METAL	3.3K	1%	1/4W
R1508	1-215-421-00	METAL	1K	1%	1/4W
R1509	1-214-800-11	METAL	2.2	1%	1/2W
R1510	1-214-800-11	METAL	2.2	1%	1/2W
R1511	1-214-800-11	METAL	2.2	1%	1/2W
R1512	1-214-800-11	METAL	2.2	1%	1/2W
R1513	1-215-421-00	METAL	1K	1%	1/4W
R1514	1-215-433-00	METAL	3.3K	1%	1/4W
R1515	1-247-815-91	CARBON	220	5%	1/4W
R1516	1-249-429-11	CARBON	10K	5%	1/4W
R1517	1-247-887-00	CARBON	220K	5%	1/4W
R1518	1-249-429-11	CARBON	10K	5%	1/4W
R1519	1-249-437-11	CARBON	47K	5%	1/4W
R1520	1-247-881-00	CARBON	120K	5%	1/4W
R1521	1-215-474-00	METAL	160K	1%	1/4W
R1522	1-214-800-11	METAL	2.2	1%	1/2W
R1523	1-214-800-11	METAL	2.2	1%	1/2W
R1524	1-215-421-00	METAL	1K	1%	1/4W
R1525	1-215-433-00	METAL	3.3K	1%	1/4W
R1526	1-247-815-91	CARBON	220	5%	1/4W
R1527	1-247-815-91	CARBON	220	5%	1/4W
R1528	1-215-433-00	METAL	3.3K	1%	1/4W
R1529	1-215-421-00	METAL	1K	1%	1/4W
R1530	1-214-800-11	METAL	2.2	1%	1/2W
R1531	1-214-800-11	METAL	2.2	1%	1/2W
R1532	1-214-800-11	METAL	2.2	1%	1/2W
R1533	1-249-441-11	CARBON	100K	5%	1/4W
R1534	1-214-800-11	METAL	2.2	1%	1/2W
R1535	1-215-421-00	METAL	1K	1%	1/4W
R1536	1-215-433-00	METAL	3.3K	1%	1/4W
R1537	1-247-815-91	CARBON	220	5%	1/4W
R1538	1-249-429-11	CARBON	10K	5%	1/4W
R1539	1-249-428-11	CARBON	8.2K	5%	1/4W
R1540	1-249-417-11	CARBON	1K	5%	1/4W
R1541	1-247-843-11	CARBON	3.3K	5%	1/4W
R1542	1-249-429-11	CARBON	10K	5%	1/4W
R1543	1-249-429-11	CARBON	10K	5%	1/4W
R1544	1-249-419-11	CARBON	1.5K	5%	1/4W
R1548	1-249-438-11	CARBON	56K	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1549	1-214-800-11	METAL	2.2	1%	1/2W
R1550	1-215-447-00	METAL	12K	1%	1/4W
R1551	1-249-428-11	CARBON	8.2K	5%	1/4W
R1552	1-214-800-11	METAL	2.2	1%	1/2W
R1554	1-215-449-00	METAL	15K	1%	1/4W
R1555	1-247-807-31	CARBON	100	5%	1/4W
R1556	1-247-863-91	CARBON	22K	5%	1/4W
R1557	1-249-429-11	CARBON	10K	5%	1/4W
R1558	1-249-429-11	CARBON	10K	5%	1/4W
R1559	1-215-857-11	METAL OXIDE	10	5%	1W
R1560	1-216-452-11	METAL OXIDE	180	5%	2W
R1561	1-249-429-11	CARBON	10K	5%	1/4W
R1562	1-249-429-11	CARBON	10K	5%	1/4W
R1563	1-249-429-11	CARBON	10K	5%	1/4W
R1564	1-215-445-00	METAL	10K	1%	1/4W
R1565	1-249-429-11	CARBON	10K	5%	1/4W
R1566	1-249-427-11	CARBON	6.8K	5%	1/4W
R1567	1-247-863-91	CARBON	22K	5%	1/4W
R1568	1-249-429-11	CARBON	10K	5%	1/4W
R1570	1-249-383-11	CARBON	1.5	5%	1/4W
R1576	1-249-429-11	CARBON	10K	5%	1/4W
R1577	1-215-447-00	METAL	12K	1%	1/4W
R1578	1-249-429-11	CARBON	10K	5%	1/4W
R1579	1-215-421-00	METAL	1K	1%	1/4W
R1580	1-215-421-00	METAL	1K	1%	1/4W
R1581	1-215-474-00	METAL	160K	1%	1/4W
R1582	1-249-421-11	CARBON	2.2K	5%	1/4W
R1583	1-247-807-31	CARBON	100	5%	1/4W
R1584	1-247-863-91	CARBON	22K	5%	1/4W
R1585	1-215-449-00	METAL	15K	1%	1/4W
R1586	1-249-441-11	CARBON	100K	5%	1/4W
R1587	1-249-414-11	CARBON	560	5%	1/4W
R1588	1-249-414-11	CARBON	560	5%	1/4W
R1589	1-249-414-11	CARBON	560	5%	1/4W
R1590	1-249-414-11	CARBON	560	5%	1/4W
R1591	1-249-414-11	CARBON	560	5%	1/4W
R1592	1-249-414-11	CARBON	560	5%	1/4W
R1593	1-216-475-11	METAL OXIDE	120	5%	3W
R1594	1-216-475-11	METAL OXIDE	120	5%	3W
R1595	1-216-475-11	METAL OXIDE	120	5%	3W
R1596	1-216-475-11	METAL OXIDE	120	5%	3W
R1597	1-216-475-11	METAL OXIDE	120	5%	3W
R1598	1-216-475-11	METAL OXIDE	120	5%	3W
R1599	1-249-429-11	CARBON	10K	5%	1/4W
R1600	1-247-807-31	CARBON	100	5%	1/4W
R1601	1-249-437-11	CARBON	47K	5%	1/4W
R1602	1-247-807-31	CARBON	100	5%	1/4W
R1603	1-249-418-11	CARBON	1.2K	5%	1/4W
R1604	1-249-429-11	CARBON	10K	5%	1/4W
R1609	1-215-445-00	METAL	10K	1%	1/4W
R1610	1-247-807-31	CARBON	100	5%	1/4W
R1611	1-247-807-31	CARBON	100	5%	1/4W
R1612	1-249-429-11	CARBON	10K	5%	1/4W
R1613	1-249-429-11	CARBON	10K	5%	1/4W
R1615	1-215-445-00	METAL	10K	1%	1/4W

REF. NO.		PART NO.	DESCRIPTION	REMARK
			<RELAY>	
RY601	⚠	1-755-266-11	RELAY, AC POWER	
			<SPARK GAP>	
SG501		1-519-466-11	GAP, SPARK	
SG502		1-519-466-11	GAP, SPARK	
			<TRANSFORMER>	
T501	⚠	1-433-836-11	TRANSFORMER, HORIZONTAL DRIVE	
T502	⚠	1-433-876-11	TRANSFORMER, FERRITE (PMT)	
T504	⚠	1-453-238-31	FLYBACK TRANS ASSY	
T601	⚠	1-433-871-11	TRANSFORMER, CONVERTER (PIT)	
T602	⚠	1-433-844-11	TRANSFORMER, CONVERTER	
T603	⚠	1-429-992-21	TRANSFORMER, CONVERTER (PRT)	
			<THERMISTOR>	
TH1501		1-807-925-11	THERMISTOR	
			<TEST PIN>	
TP501	*	1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
			<VARISTOR>	
VDR601	⚠	1-801-073-31	VARISTOR TNR14V471K660	

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REF. NO.		PART NO.	DESCRIPTION			
	*	A-1331-922-A	CR BOARD, COMPLETE **********************			
		4-382-854-11	SCREW (M3X10), P, SW (+)			
			<CAPACITOR>			
C701		1-104-570-11	CERAMIC	0.001μF	10%	2KV
C703		1-104-664-11	ELECT	47μF	20%	25V
C706		1-102-114-00	CERAMIC	470PF	10%	50V
C708		1-102-113-00	CERAMIC	390PF	10%	50V
C709		1-101-880-00	CERAMIC	47PF	5%	50V
C710		1-162-115-00	CERAMIC	330PF	10%	2KV
C711		1-161-830-00	CERAMIC	0.0047μF		500V
C712		1-107-662-11	ELECT	22μF	20%	250V
			<CONNECTOR>			
CN701	*	1-564-507-11	PLUG, CONNECTOR 4P			
CN702	*	1-564-512-11	PLUG, CONNECTOR 9P			
CN703		1-785-879-11	CONNECTOR, ONE TOUCH			
CN704	⚠	1-251-182-11	SOCKET, CRT			
CN705		1-695-915-11	TAB (CONTACT)			
CN706		1-695-915-11	TAB (CONTACT)			

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Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<DIODE>				
D705	8-719-991-33	DIODE 1SS133T-77				
D706	8-719-991-33	DIODE 1SS133T-77				
D707	8-719-991-33	DIODE 1SS133T-77				
D708	8-719-991-33	DIODE 1SS133T-77				
D709	8-719-991-33	DIODE 1SS133T-77				
		<COIL>				
L701	1-414-188-41	INDUCTOR	68µH			
L702	1-412-911-11	FERRITE	0µH			
		<NEON LAMP>				
NL701	1-517-778-21	LAMP, NEON				
		<TRANSISTOR>				
Q704	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-200-17	TRANSISTOR 2SA1091-O				
		<RESISTOR>				
R701	1-219-743-11	CARBON	100	5%	1/2W	
R702	1-260-132-11	CARBON	560K	5%	1/2W	
R703	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R704	1-215-476-00	METAL	200K	1%	1/4W	
R711	1-247-807-31	CARBON	100	5%	1/4W	
R712	1-249-404-00	CARBON	82	5%	1/4W	
R713	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R714	1-249-393-11	CARBON	10	5%	1/4W	
R715	1-249-419-11	CARBON	1.5K	5%	1/4W	
R718	1-260-133-11	CARBON	680K	5%	1/2W	
R719	1-249-425-11	CARBON	4.7K	5%	1/4W	
R720	1-260-099-11	CARBON	1K	5%	1/2W	
R721	1-260-099-11	CARBON	1K	5%	1/2W	
R722	1-260-087-11	CARBON	100	5%	1/2W	
R723	1-412-911-11	FERRITE	0µH			
		<SPARK GAP>				
SG701	1-519-422-11	GAP, SPARK				
SG702	1-517-729-31	GAP, SPARK				
		<TEST PIN>				
TP701	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)				

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REF. NO.	PART NO.	DESCRIPTION				REMARK
	* A-1331-923-A	CG BOARD, COMPLETE **********************				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C731	1-104-664-11	ELECT	47µF	20%	25V	
C732	1-104-570-11	CERAMIC	0.001µF	10%	2KV	
C733	1-102-114-00	CERAMIC	470PF	10%	50V	
C734	1-102-114-00	CERAMIC	470PF	10%	50V	
C735	1-101-880-00	CERAMIC	47PF	5%	50V	
C736	1-161-830-00	CERAMIC	0.0047µF		500V	
C737	1-162-115-00	CERAMIC	330PF	10%	2KV	
C738	1-107-662-11	ELECT	22µF	20%	250V	
C1301	1-106-343-00	MYLAR	0.001µF	10%	200V	
C1302	1-107-639-11	ELECT	47µF	20%	160V	
C1303	1-126-933-11	ELECT	100µF	20%	16V	
C1305	1-126-933-11	ELECT	100µF	20%	16V	
C1308	1-106-383-00	MYLAR	0.047µF	10%	200V	
C1309	1-106-383-00	MYLAR	0.047µF	10%	200V	
C1310	1-126-960-11	ELECT	1µF	20%	50V	
C1312	1-161-830-00	CERAMIC	0.0047µF		500V	
C1313	1-102-129-00	CERAMIC	0.01µF	10%	50V	
C1314	1-102-129-00	CERAMIC	0.01µF	10%	50V	
C1315	1-126-933-11	ELECT	100µF	20%	16V	
		<CONNECTOR>				
CN731	* 1-564-512-11	PLUG, CONNECTOR 9P				
CN732	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN733	* 1-564-508-11	PLUG, CONNECTOR 5P				
CN734	* 1-564-513-11	PLUG, CONNECTOR 10P				
CN735	* 1-564-512-11	PLUG, CONNECTOR 9P				
CN736	* 1-564-512-11	PLUG, CONNECTOR 9P				
CN737	1-785-879-11	CONNECTOR, ONE TOUCH				
CN738	1-695-915-11	TAB (CONTACT)				
CN739	1-695-915-11	TAB (CONTACT)				
CN740⚠	1-251-182-11	SOCKET, CRT				
CN1301	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN1302	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN1303	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN1304	* 1-564-509-11	PLUG, CONNECTOR 6P				
		<DIODE>				
D731	8-719-991-33	DIODE 1SS133T-77				
D732	8-719-991-33	DIODE 1SS133T-77				
D733	8-719-991-33	DIODE 1SS133T-77				
D734	8-719-991-33	DIODE 1SS133T-77				
D735	8-719-991-33	DIODE 1SS133T-77				
D736	8-719-109-85	DIODE RD5.1ES-B2				
D1304	8-719-991-33	DIODE 1SS133T-77				
		<COIL>				
L731	1-414-188-41	INDUCTOR	68µH			
L732	1-412-911-11	FERRITE	0µH			

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
L1301	1-412-911-11	FERRITE	0µH			
L1302	1-412-911-11	FERRITE	0µH			
		<NEON LAMP>				
NL731	1-517-778-21	LAMP, NEON				
		<TRANSISTOR>				
Q731	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA			
Q732	8-729-326-11	TRANSISTOR	2SC2611			
Q733	8-729-200-17	TRANSISTOR	2SA1091-O			
Q734	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q1301	8-729-017-06	TRANSISTOR	2SC4793			
Q1302	8-729-017-05	TRANSISTOR	2SA1837			
Q1303	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q1304	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA			
Q1305	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA			
Q1306	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA			
		<RESISTOR>				
R731	1-219-743-11	CARBON	100	5%	1/2W	
R732	1-260-132-11	CARBON	560K	5%	1/2W	
R733	1-247-807-31	CARBON	100	5%	1/4W	
R734	1-260-087-11	CARBON	100	5%	1/2W	
R735	1-249-403-11	CARBON	68	5%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-249-393-11	CARBON	10	5%	1/4W	
R738	1-249-414-11	CARBON	560	5%	1/4W	
R739	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R741	1-249-425-11	CARBON	4.7K	5%	1/4W	
R742	1-260-099-11	CARBON	1K	5%	1/2W	
R743	1-247-881-00	CARBON	120K	5%	1/4W	
R744	1-260-133-11	CARBON	680K	5%	1/2W	
R745	1-260-099-11	CARBON	1K	5%	1/2W	
R746	1-249-437-11	CARBON	47K	5%	1/4W	
R747	1-249-438-11	CARBON	56K	5%	1/4W	
R753	1-412-911-11	FERRITE	0µH			
R1301	1-215-916-11	METAL OXIDE	680	5%	3W	F
R1302	1-215-916-11	METAL OXIDE	680	5%	3W	F
R1303	1-249-400-11	CARBON	39	5%	1/4W	F
R1304	1-249-391-11	CARBON	6.8	5%	1/4W	F
R1305	1-249-391-11	CARBON	6.8	5%	1/4W	F
R1306	1-249-429-11	CARBON	10K	5%	1/4W	
R1307	1-260-311-11	CARBON	39	5%	1/2W	
R1308	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1310	1-249-441-11	CARBON	100K	5%	1/4W	
R1311	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R1314	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1315	1-249-399-11	CARBON	33	5%	1/4W	
R1319	1-249-413-11	CARBON	470	5%	1/4W	
R1321	1-249-406-11	CARBON	120	5%	1/4W	
R1323	1-249-377-11	CARBON	0.47	5%	1/4W	F
R1324	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1325	1-249-431-11	CARBON	15K	5%	1/4W	
R1327	1-249-441-11	CARBON	100K	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R1328	1-249-435-11	CARBON	33K	5%	1/4W	
		<SPARK GAP>				
SG731	1-519-422-11	GAP, SPARK				
SG732	1-517-729-31	GAP, SPARK				
		<TEST PIN>				
TP731	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)				
TP732	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)				
TP733	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)				

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REF. NO.	PART NO.	DESCRIPTION				REMARK
	* A-1331-924-A	CB BOARD, COMPLETE **********************				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C761	1-104-664-11	ELECT	47µF	20%	25V	
C762	1-104-570-11	CERAMIC	0.001µF	10%	2KV	
C763	1-102-114-00	CERAMIC	470PF	10%	50V	
C764	1-102-112-00	CERAMIC	330PF	10%	50V	
C765	1-101-880-00	CERAMIC	47PF	5%	50V	
C767	1-162-115-00	CERAMIC	330PF	10%	2KV	
C768	1-126-964-11	ELECT	10µF	20%	50V	
C769	1-161-830-00	CERAMIC	0.0047µF		500V	
C770	1-107-662-11	ELECT	22µF	20%	250V	
		<CONNECTOR>				
CN761	* 1-564-508-11	PLUG, CONNECTOR 5P				
CN762	* 1-564-512-11	PLUG, CONNECTOR 9P				
CN763	1-785-879-11	CONNECTOR, ONE TOUCH				
CN764	1-695-915-11	TAB (CONTACT)				
CN765	1-695-915-11	TAB (CONTACT)				
CN766⚠	1-251-182-11	SOCKET, CRT				
		<DIODE>				
D761	8-719-991-33	DIODE	1SS133T-77			
D762	8-719-991-33	DIODE	1SS133T-77			
D763	8-719-991-33	DIODE	1SS133T-77			
D764	8-719-991-33	DIODE	1SS133T-77			
D765	8-719-991-33	DIODE	1SS133T-77			
		<COIL>				
L761	1-414-188-41	INDUCTOR	68µH			
L762	1-412-911-11	FERRITE	0µH			
		<NEON LAMP>				
NL761	1-517-778-21	LAMP, NEON				

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<TRANSISTOR>				
Q761	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA			
Q762	8-729-326-11	TRANSISTOR	2SC2611			
Q763	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q764	8-729-200-17	TRANSISTOR	2SA1091-O			
		<RESISTOR>				
R761	1-219-743-11	CARBON	100	5%	1/2W	
R762	1-260-132-11	CARBON	560K	5%	1/2W	
R763	1-247-807-31	CARBON	100	5%	1/4W	
R764	1-216-486-00	METAL OXIDE	8.8K	5%	3W	F
R765	1-247-807-31	CARBON	100	5%	1/4W	
R766	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R767	1-249-393-11	CARBON	10	5%	1/4W	
R768	1-249-418-11	CARBON	1.2K	5%	1/4W	
R770	1-249-404-00	CARBON	82	5%	1/4W	
R771	1-249-426-11	CARBON	5.6K	5%	1/4W	
R772	1-249-435-11	CARBON	33K	5%	1/4W	
R773	1-260-099-11	CARBON	1K	5%	1/2W	
R775	1-249-425-11	CARBON	4.7K	5%	1/4W	
R776	1-260-133-11	CARBON	680K	5%	1/2W	
R777	1-260-099-11	CARBON	1K	5%	1/2W	
R778	1-259-880-11	CARBON	2.2M	5%	1/2W	
R779	1-260-087-11	CARBON	100	5%	1/2W	
R783	1-412-911-11	FERRITE	0µH			
		<SPARK GAP>				
SG761	1-519-422-11	GAP, SPARK				
SG762	1-517-729-31	GAP, SPARK				
		<TEST PIN>				
TP761 *	1-535-881-21	TERMINAL, TP (AUTO INSERTION)				

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* A-1372-618-A HC BOARD, COMPLETE
****

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C1291	1-126-791-11	ELECT	10µF	20%	16V	
		<CONNECTOR>				
CN1291*	1-564-518-11	PLUG, CONNECTOR 3P				
		<DIODE>				
D1291	8-719-066-43	DIODE	GP1U28Y			
D1292	8-719-109-89	DIODE	RD5.6ESB2			
D1293	8-719-109-89	DIODE	RD5.6ESB2			
		<RESISTOR>				
R1291	1-247-807-31	CARBON	100	5%	1/4W	

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* A-1372-619-A HA BOARD, COMPLETE
****

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<CONNECTOR>				
CN1202*	1-564-517-11	PLUG, CONNECTOR 2P				
CN1203*	1-564-522-11	PLUG, CONNECTOR 7P				
		<DIODE>				
D1201	8-719-053-43	DIODE	SLR-325VCT31			
		<RESISTOR>				
R1201	1-249-431-11	CARBON	15K	5%	1/4W	
R1202	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1203	1-249-417-11	CARBON	1K	5%	1/4W	
R1204	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1205	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1206	1-247-815-91	CARBON	220	5%	1/4W	
		<SWITCH>				
S1201	1-572-198-11	SWITCH, KEYBOARD (FLASH FOCUS)				
S1202	1-572-198-11	SWITCH, KEYBOARD (TV/VIDEO)				
S1203	1-572-198-11	SWITCH, KEYBOARD (VOLUME -)				
S1204	1-572-198-11	SWITCH, KEYBOARD (VOLUME +)				
S1205	1-572-198-11	SWITCH, KEYBOARD (CHANNEL -)				
S1206	1-572-198-11	SWITCH, KEYBOARD (CHANNEL +)				
S1207	1-572-198-11	SWITCH, KEYBOARD (POWER)				

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* A-1372-620-A HB BOARD, COMPLETE
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REF. NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C1251	1-128-551-11	ELECT	22µF	20%	25V	
C1252	1-128-551-11	ELECT	22µF	20%	25V	
C1253	1-128-551-11	ELECT	22µF	20%	25V	
C1254	1-128-551-11	ELECT	22µF	20%	25V	
C1255	1-128-551-11	ELECT	22µF	20%	25V	
		<CONNECTOR>				
CN1252*	1-564-517-11	PLUG, CONNECTOR 2P				
CN1253*	1-564-526-11	PLUG, CONNECTOR 11P				

HB **S**

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D1251	8-719-110-17	DIODE RD10ESB2	
D1252	8-719-110-17	DIODE RD10ESB2	
D1253	8-719-110-17	DIODE RD10ESB2	
D1254	8-719-110-17	DIODE RD10ESB2	
D1255	8-719-110-17	DIODE RD10ESB2	
D1256	8-719-110-17	DIODE RD10ESB2	
		<JACK>	
J1251	1-770-361-11	TERMINAL BLOCK, S	
		<RESISTOR>	
R1251	1-249-429-11	CARBON 10K 5% 1/4W	
R1252	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1253	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1254	1-249-418-11	CARBON 1.2K 5% 1/4W	
R1255	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1256	1-247-804-11	CARBON 75 5% 1/4W	
R1257	1-247-895-91	CARBON 470K 5% 1/4W	
R1258	1-247-895-91	CARBON 470K 5% 1/4W	
R1259	1-247-804-11	CARBON 75 5% 1/4W	
R1260	1-247-804-11	CARBON 75 5% 1/4W	
		<SWITCH>	
S1251	1-572-198-11	SWITCH, KEYBOARD (SELECT)	
S1252	1-572-198-11	SWITCH, KEYBOARD (+)	
S1253	1-572-198-11	SWITCH, KEYBOARD (-)	
S1254	1-572-198-11	SWITCH, KEYBOARD (MENU)	
S1255	1-572-198-11	SWITCH, KEYBOARD (SET UP)	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
*	A-1390-933-A	S BOARD, COMPLETE ********************	
		<CONNECTOR>	
CN3001*	1-564-506-11	PLUG, CONNECTOR 3P	
		<DIODE>	
D3001	8-719-109-89	DIODE RD5.6ESB2	
		<SWITCH>	
S3001	1-528-911-21	BATTERY, SOLAR	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS *****************	
⚠	1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
⚠	1-451-469-21	COIL ASSY, VM (53S75/61S75 Serial No. 9,500,001-)	
⚠	1-451-496-11	DEFLECTION YOKE (EXCEPT 53S75/61S75 Serial No. 9,500,001-)	
⚠	1-451-496-21	DEFLECTION YOKE (53S75/61S75 Serial No. 9,500,001-)	
⚠	1-452-790-21	NECK ASSY (EXCEPT 53S75/61S75 Serial No. 9,500,001-)	
⚠	1-452-909-31	MAGNET ASSY, 4 POLE (EXCEPT 53S75/61S75 Serial No. 9,500,001-)	
⚠	1-453-238-31	FLAYBACK TRANS ASSY (T504)	
	1-500-021-11	CLAMP, SLEEVE FERRITE	
	1-529-396-11	SPEAKER (10cm) (EXCEPT 53N77)	
	1-529-401-11	SPEAKER (13cm) (53N77)	
	1-529-403-11	SPEAKER (6.6cm) (53N77)	
	1-556-945-21	CABLE, P-P	
*	1-557-056-31	CABLE, P-P	
⚠	1-790-001-11	CORD, AC POWER (WITH CONNECTOR) (43T75,48S75,61S75)	
⚠	1-790-130-11	CORD, AC POWER (WITH CONNECTOR) (53N77,53S75)	
⚠	8-598-414-20	CHANGER, ANTENNA AS-2F	
⚠	8-598-955-30	BLOCK ASSY, HIGH-VOLTAGE	
⚠	8-733-570-15	CRT 07MXC2(G)(HEATER) (EXCEPT 53S75/61S75 Serial No. 9,500,001-)	
⚠	8-733-571-15	CRT 07MXC2(R)(HEATER) (43T75)	
⚠	8-733-572-15	CRT 07MXC3(R)(HEATER) (48S75,53N77,53S75)	
⚠	8-733-573-15	CRT 07MXC4(R)(HEATER) (61S75)	
⚠	8-733-574-15	CRT 07MAC2(B)(HEATER) (43T75)	
⚠	8-733-575-15	CRT 07MAC3(B)(HEATER) (48S75,53N77,53S75)	
⚠	8-733-576-15	CRT 07MAC4(B)(HEATER) (61S75)	
⚠	A-1501-520-A	COUPLER ASSY, CRT (B) (61S75 Serial No. 9,500,001-)	
⚠	A-1501-521-A	COUPLER ASSY, CRT (R) (61S75 Serial No. 9,500,001-)	
⚠	A-1501-522-A	COUPLER ASSY, CRT (G) (53S75/61S75 Serial No. 9,500,001-)	
⚠	A-1501-526-A	COUPLER ASSY, CRT (R) (53S75 Serial No. 9,500,001-)	
⚠	A-1501-527-A	COUPLER ASSY, CRT (B) (53S75 Serial No. 9,500,001-)	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS **	
*	4-041-423-01	SHEET, PROTECTION (43T75/48S75)	
*	4-041-425-01	BAG, PROTECTION (48S75)	
*	4-041-426-01	BAG, PROTECTION (53N77/53S75)	
*	4-042-463-01	SHEET, PROTECTION (53N77/53S75/61S75)	
*	4-049-155-01	BAG, PROTECTION (43T75)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
*	4-069-525-01	CUSHION (UPPER) (ASSY) (48S75)	
*	4-069-526-01	CUSHION (LOWER) (ASSY) (48S75)	
*	4-069-531-01	INDIVIDUAL CARTON (48S75)	
*	4-069-532-01	PLATE, BOTTOM (48S75)	
*	4-069-533-01	TRAY (48S75)	
*	4-069-537-01	ASSY, CUSHION (UPPER) (43T75)	
*	4-069-538-01	ASSY, CUSHION (LOWER) (43T75)	
*	4-069-543-01	INDIVIDUAL CARTON (43T75)	
*	4-069-545-01	TRAY (43T75)	
*	4-069-573-01	INDIVIDUAL CARTON (53N77/53S75)	
*	4-069-574-01	BOARD, BOTTOM (53N77/53S75)	
*	4-069-575-01	TRAY (53N77/53S75)	
*	4-069-576-01	CUSHION (UPPER) (ASSY) (53N77/53S75)	
*	4-069-577-01	CUSHION (LOWER) (ASSY) (53N77)	
*	4-069-582-01	INDIVIDUAL CARTON (61S75)	
*	4-069-583-01	BOARD, BOTTOM (61S75)	
*	4-069-584-01	TRAY (61S75)	
*	4-069-585-01	CUSHION (UPPER) (ASSY) (61S75)	
*	4-069-591-01	CUSHION (LOWER) (ASSY) (53S75)	
*	4-069-594-01	CUSHION (LOWER) (ASSY) (61S75)	
*	4-076-420-01	BAG, PROTECTION (61S75)	
	4-077-171-11	MANUAL, INSTRUCTION	
	4-077-171-21	MANUAL, INSTRUCTION	
	4-077-171-31	MANUAL, INSTRUCTION	
	4-077-171-41	MANUAL, INSTRUCTION	
		REMOTE COMMANDER **********************	
	1-418-469-11	REMOTE COMMANDER (RM-Y906)	
	4-978-977-01	COVER, BATTERY (FOR RM-Y906)	